Property Data



Print Date: 2024-03-27

Akulon[®] Ultraflow K-FHGR24

PA6-(GF+GB)30

10% Glass Reinforced, 20% Glass Beads Reinforced, Heat Stabilized, High Flow

PROPERTIES INPLICAL DATA UNIT TEST METHOD MECHANICAL PROPERTIES DRY / COND ISO 527-1/-2 Stress at break 85 / 55 MPa ISO 527-1/-2 Stress at break 85 / 55 MPa ISO 527-1/-2 Stress at break 25 / 5 % ISO 527-1/-2 Stress at break 25 / 5 % ISO 527-1/-2 Stress at break 25 / 5 % ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 527-1/-2 Stress at break 25 / 5 % ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 178 ISO 178 Charpy impact strength 124 / 63 MPa ISO 178 Charpy impact strength (-23°C) 21 / - KJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 4 / 6 KJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 KJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 KJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 KJ/m² <th></th> <th></th> <th></th> <th></th>				
Tensile modulus 6000 / 3500 MPa ISO 527-1/-2 Stress at break 85 / 55 MPa ISO 527-1/-2 Strain at break 2.5 / 5 % ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 178 Flexural strength 124 / 63 MPa ISO 178 Charpy impact strength (+23°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 4 / 6 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 190 / ' °C ISO 11357-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / ' E-4/°C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / ' E-4/°C IEO 62631-2-1 R	PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Stress at break 85 / 55 MPa ISO 527-1/-2 Strain at break 2.5 / 5 % ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 178 Flexural strength 124 / 63 MPa ISO 178 Charpy impact strength (+23°C) 21 / - kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 4 / 6 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 ISO 179/1eA Melting temperature (10°C/min) 220 / * °C ISO 11357-1/-2 Temp. of deflection under load (180 MPa) 190 / * °C ISO 11357-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / * E-4/°C ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / COND IEC 62631-2-1 IEC 62631-2-1 <	MECHANICAL PROPERTIES	DRY / COND		
Strain at break $2.5 / 5$ % ISO 527-1/-2 Flexural modulus 4900 / 2300 MPa ISO 178 Flexural strength 124 / 63 MPa ISO 178 Charpy impact strength (+23°C) 21 / - kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 4 / 6 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 11357-1/-3 THERMAL PROPERTIES DRY / COND ISO 75-1/-2 ISO 11357-1/-2 Melting temperature (10°C/min) 220 / * °C ISO 11357-1/-2 Temp. of deflection under load (0.45 MPa) 190 / * °C ISO 11357-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / * E-4/°C ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / COND E E E Relative permittivity (100Hz) 3.5 / 14 - IEC 62631-2-1	Tensile modulus	6000 / 3500	MPa	ISO 527-1/-2
Flexural modulus 4900 / 2300 MPa ISO 178 Flexural strength 124 / 63 MPa ISO 178 Charpy impact strength (+23°C) 21 / - kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 21 / - kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 4 / 6 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 4 / 4 kJ/m² ISO 179/1eA THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 ISO 11357-1/-3 Melting temperature (10°C/min) 220 / * °C ISO 11357-1/-2 Temp. of deflection under load (180 MPa) 190 / * °C ISO 11357-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / * E-4/°C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 / * E-4/°C ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / COND IEC 62631-2-1 IEC 62631-2-1 Relative permittivity (100Hz) 3.5 / 14 - <td>Stress at break</td> <td>85 / 55</td> <td>MPa</td> <td>ISO 527-1/-2</td>	Stress at break	85 / 55	MPa	ISO 527-1/-2
Flexural strength124 / 63MPaISO 178Charpy impact strength (+23°C)21 / -kJ/m²ISO 179/1eUCharpy impact strength (-30°C)21 / -kJ/m²ISO 179/1eUCharpy notched impact strength (+23°C)4 / 6kJ/m²ISO 179/1eACharpy notched impact strength (-30°C)4 / 4kJ/m²ISO 179/1eACharpy notched impact strength (-30°C)4 / 4kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min)220 / *°CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)190 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa)215 / *°CISO 1359-1/-2Coeff. of linear therm. expansion (parallel)0.35 / *E-4/°CISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDEEERelative permittivity (100Hz)3.5 / 14-IEC 62631-2-1Dissipation factor (100 Hz)50 / 3000E-4IEC 62631-2-1Dissipation factor (100 Hz)150 / 1200E-4IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1	Strain at break	2.5 / 5	%	ISO 527-1/-2
Charpy impact strength (+23°C) $21/-$ kJ/m² ISO 179/1eU Charpy impact strength (-30°C) $21/-$ kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) $4/6$ kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) $4/4$ kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) $4/4$ kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) $4/4$ kJ/m² ISO 179/1eA THERMAL PROPERTIES DRY / COND Melting temperature (10°C/min) 220 /* °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 190 /* °C ISO 75-1/-2 Temp. of deflection under load (0.45 MPa) 215 /* °C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 /* E-4/°C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.35 /* E-4/°C ISO 11359-1/-2 Relative permittivity (100Hz) 3.5 / 14 - IEC 62631-2-1 Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 <	Flexural modulus	4900 / 2300	MPa	ISO 178
Charpy impact strength (-30°C) $21/-$ kJ/m²ISO 179/1eUCharpy notched impact strength (+23°C) $4/6$ kJ/m²ISO 179/1eACharpy notched impact strength (-30°C) $4/4$ kJ/m²ISO 179/1eATHERMAL PROPERTIESMelting temperature (10°C/min) $220/*$ °CISO 11357–1/–3Temp. of deflection under load (1.80 MPa)190/*°CISO 75–1/–2Temp. of deflection under load (0.45 MPa) $215/*$ °CISO 179/1eACoeff. of linear therm. expansion (parallel) $0.35/*$ $E-4/°C$ ISO 11359–1/–2Coeff. of linear therm. expansion (parallel) $0.35/*$ $E-4/°C$ ISO 11359–1/–2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100Hz) $3.5/14$ $-$ IEC 62631–2–1Dissipation factor (100 Hz) $50/3000$ $E-4$ IEC 62631–2–1Dissipation factor (100 Hz) $150/1200$ $E-4$ IEC 62631–2–1Volume resistivity1E12/1E10Ohm*mIEC 62631–3–1	Flexural strength	124 / 63	MPa	ISO 178
Charpy notohed impact strength (+23°C) $4 / 6$ kJ/m²ISO 179/1eACharpy notched impact strength (-30°C) $4 / 4$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220 / \cdot$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)190 / \cdot °CISO 75-1/-2Temp. of deflection under load (0.45 MPa)215 / \cdot °CISO 75-1/-2Coeff. of linear therm. expansion (parallel)0.35 / \cdot E-4/°CISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ E-4IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ E-4IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1	Charpy impact strength (+23°C)	21 / -	kJ∕m²	ISO 179/1eU
Charpy notched impact strength (-30°C) $4 / 4$ kJ/m^2 ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220 / \cdot$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $190 / \cdot$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $215 / \cdot$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / \cdot$ $E-4/°C$ ISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1	Charpy impact strength (-30°C)	21 / -	kJ∕m²	ISO 179/1eU
THERMAL PROPERTIESDRY / CONDMelting temperature $(10^{\circ}C/min)$ $220 / \cdot$ $^{\circ}C$ ISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $190 / \cdot$ $^{\circ}C$ ISO 75-1/-2Temp. of deflection under load (0.45 MPa) $215 / \cdot$ $^{\circ}C$ ISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / \cdot$ $E-4/^{\circ}C$ ISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1	Charpy notched impact strength (+23°C)	4 / 6	kJ∕m²	ISO 179/1eA
Melting temperature (10°C/min) $220 / *$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)190 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $215 / *$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / *$ $E-4/°C$ ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -Temp. if factor (100 Hz) $3.3 / 4.5$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1	Charpy notched impact strength (-30°C)	4 / 4	kJ∕m²	ISO 179/1eA
Melting temperature (10°C/min) $220 / *$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)190 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $215 / *$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / *$ $E-4/°C$ ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -Temp. if factor (100 Hz) $3.3 / 4.5$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity1E12 / 1E10Ohm*mIEC 62631-3-1				
Temp. of deflection under load (1.80 MPa) $190 / *$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $215 / *$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / *$ $E-4/°C$ ISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100Hz) $3.5 / 14$ -IEC 62631-2-1Relative permittivity (1 MHz) $3.3 / 4.5$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity $1E12 / 1E10$ Ohm*mIEC 62631-3-1				
Temp. of deflection under load (0.45 MPa) $215 / *$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.35 / *$ $E-4/°C$ ISO 11359-1/-2ELECTRICAL PROPERTIESDRY / CONDRelative permittivity (100 Hz) $3.5 / 14$ -IEC 62631-2-1Relative permittivity (1 MHz) $3.3 / 4.5$ -IEC 62631-2-1Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1Dissipation factor (100 Hz) $150 / 1200$ $E-4$ IEC 62631-2-1Volume resistivity $1E12 / 1E10$ Ohm*mIEC 62631-3-1	THERMAL PROPERTIES	DRY / COND		
Coeff. of linear therm. expansion (parallel) $0.35 / *$ $E-4/^{\circ}C$ ISO 11359-1/-2 ELECTRICAL PROPERTIES DRY / COND IEC 62631-2-1 Relative permittivity (100Hz) $3.5 / 14$ - IEC 62631-2-1 Relative permittivity (1 MHz) $3.3 / 4.5$ - IEC 62631-2-1 Dissipation factor (100 Hz) $50 / 3000$ $E-4$ IEC 62631-2-1 Dissipation factor (1 MHz) $150 / 1200$ $E-4$ IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1			°C	ISO 11357-1/-3
ELECTRICAL PROPERTIES DRY / COND Relative permittivity (100Hz) 3.5 / 14 - IEC 62631-2-1 Relative permittivity (1 MHz) 3.3 / 4.5 - IEC 62631-2-1 Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min)	220 / *		
Relative permittivity (100Hz) 3.5 / 14 - IEC 62631-2-1 Relative permittivity (1 MHz) 3.3 / 4.5 - IEC 62631-2-1 Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa)	220 / * 190 / *	°C	ISO 75-1/-2
Relative permittivity (100Hz) 3.5 / 14 - IEC 62631-2-1 Relative permittivity (1 MHz) 3.3 / 4.5 - IEC 62631-2-1 Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa)	220 / * 190 / * 215 / *	°C °C	ISO 75-1/-2 ISO 75-1/-2
Relative permittivity (1 MHz) 3.3 / 4.5 - IEC 62631-2-1 Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa)	220 / * 190 / * 215 / *	°C °C	ISO 75-1/-2 ISO 75-1/-2
Dissipation factor (100 Hz) 50 / 3000 E-4 IEC 62631-2-1 Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min)Temp. of deflection under load (1.80 MPa)Temp. of deflection under load (0.45 MPa)Coeff. of linear therm. expansion (parallel)	220 / * 190 / * 215 / * 0.35 / *	°C °C	ISO 75-1/-2 ISO 75-1/-2
Dissipation factor (1 MHz) 150 / 1200 E-4 IEC 62631-2-1 Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa) Coeff. of linear therm. expansion (parallel) ELECTRICAL PROPERTIES	220 / * 190 / * 215 / * 0.35 / * DRY / COND	°C °C	ISO 75–1/–2 ISO 75–1/–2 ISO 11359–1/–2
Volume resistivity 1E12 / 1E10 Ohm*m IEC 62631-3-1	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa) Coeff. of linear therm. expansion (parallel) ELECTRICAL PROPERTIES Relative permittivity (100Hz)	220 / * 190 / * 215 / * 0.35 / * DRY / COND 3.5 / 14	°C °C E-4/°C	ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2 IEC 62631-2-1
	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa) Coeff. of linear therm. expansion (parallel) ELECTRICAL PROPERTIES Relative permittivity (100Hz) Relative permittivity (1 MHz)	220 / * 190 / * 215 / * 0.35 / * DRY / COND 3.5 / 14 3.3 / 4.5	°C °C E-4/°C –	ISO 75–1/–2 ISO 75–1/–2 ISO 11359–1/–2 IEC 62631–2–1 IEC 62631–2–1
Surface resistivity - / 1E13 Ohm IEC 62631–3–2	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa) Coeff. of linear therm. expansion (parallel) ELECTRICAL PROPERTIES Relative permittivity (100Hz) Relative permittivity (1 MHz) Dissipation factor (100 Hz)	220 / * 190 / * 215 / * 0.35 / * DRY / COND 3.5 / 14 3.3 / 4.5 50 / 3000	°C °C E-4/°C - - E-4	ISO 75–1/–2 ISO 75–1/–2 ISO 11359–1/–2 IEC 62631–2–1 IEC 62631–2–1 IEC 62631–2–1
	Melting temperature (10°C/min) Temp. of deflection under load (1.80 MPa) Temp. of deflection under load (0.45 MPa) Coeff. of linear therm. expansion (parallel) ELECTRICAL PROPERTIES Relative permittivity (100Hz) Relative permittivity (1 MHz) Dissipation factor (100 Hz) Dissipation factor (1 MHz)	220 / * 190 / * 215 / * 0.35 / * DRY / COND 3.5 / 14 3.3 / 4.5 50 / 3000 150 / 1200	°C °C E-4/°C - - E-4 E-4	ISO 75–1/–2 ISO 75–1/–2 ISO 11359–1/–2 IEC 62631–2–1 IEC 62631–2–1 IEC 62631–2–1 IEC 62631–2–1

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Property Data Akulon[®] Ultraflow K-FHGR24

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Electric strength	35 / 25	kV/mm	IEC 60243-1
Comparative tracking index	350 / 350	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1350 / -	kg∕m³	ISO 1183

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