

Akulon[®] RePurposed RE BK00003

PA6

Recycled Content

Print Date: 2024-04-16

Sustainability

Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	3000 / 1100	MPa	ISO 527-1/-2
Stress at 50% strain	35 / -	MPa	ISO 527-1/-2
Nominal strain at break	14 / >50	%	ISO 527-1/-2
Yield stress	70 / 45	MPa	ISO 527-1/-2
Yield strain	3 / -	%	ISO 527-1/-2
Flexural modulus	2800 / 1000	MPa	ISO 178
Flexural strength	110 / 40	MPa	ISO 178
Charpy impact strength (+23°C)	50 / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 16	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
<i>DRY / COND</i>			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	725 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	675 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	3 / -	mm	IEC 60695-2-12
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Comparative tracking index	575 / -	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183

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