

# Arnitel<sup>®</sup> UM551-V

## TPC-ES FR

Flame Retardant (halogen–phosphorous–free)

Print Date: 2024-03-27

Due to limited hydrolysis resistance, this material should only be used in dry environments.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		<b>VALUE</b>	
Melt volume–flow rate	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Melt flow index MFI	14.4	g/10min	ISO 1133
MFI test load	2.16	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
Molding shrinkage [parallel]	1.35	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.35	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>		<b>VALUE</b>	
Shore D Hardness (3s)	55	–	ISO 868
Shore D Hardness (15s)	55	–	ISO 868
Tensile modulus	250	MPa	ISO 527-1/-2
Yield stress	15	MPa	ISO 527-1/-2
Yield strain	22	%	ISO 527-1/-2
Stress at break	27	MPa	ISO 527-1/-2
Nominal strain at break	375	%	ISO 527-1/-2
Stress at 10% strain	13	MPa	ISO 527-1/-2
Stress at 100% strain	17.5	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
Melting temperature (10°C/min)	200	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	85	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	90	°C	ISO 306
Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
<b>ELECTRICAL PROPERTIES</b>			
	<b>VALUE</b>		
Relative permittivity (100Hz)	5.2	—	IEC 62631-2-1
Dissipation factor (100 Hz)	0.02	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
<b>OTHER PROPERTIES</b>			
	<b>VALUE</b>		
Density	1280	kg/m <sup>3</sup>	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.25	%	Sim. to ISO 62

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