

Product Texts

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

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	13.8	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
^[C] Molding shrinkage, parallel	1.4	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
^[C] Yield stress	15	MPa	ISO 527
^[C] Yield strain	22	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, -30°C	6	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	10.8	MPa	ISO 527
^[C] Stress at 100% elongation	14.1	MPa	ISO 527
^[C] Stress at 300% elongation	21	MPa	ISO 527
^[C] Stress at break TPE	36	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Tear strength	165	kN/m	ISO 34-1
^[C] Shore D hardness	55	-	ISO 7619-1

[C]: CAMPUS

Thermal properties

	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	200	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 0.45 MPa	80	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	85	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	160	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-

[C]: CAMPUS

Electrical properties

	Value	Unit	Test Standard
ISO Data			
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties

	Value	Unit	Test Standard
^[C] Water absorption	0.6	%	Sim. to ISO 62
^[C] Humidity absorption	0.25	%	Sim. to ISO 62
^[C] Density	1260	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Arnitel® UM551

TPC

Envalior

Processing

Injection Molding, Film Extrusion

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

North America, Europe

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)

Film extrusion

[Arnitel® Recommendations for Extrusion](#)

Other extrusion

[Extrusion guideline Arnitel® C and Arnitel® U](#)