

SABIC Innovative Plastics ULTEM ATX3562R PEI+PCE

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI) + PCE

Material Notes:

50% Glass fiber and mineral filled, high flow Polyetherimide blend with internal mold release and enhanced dimensional stability. ECO Conforming.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-ATX3562R-PEIPCE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	20 g/10 min @Load 6.60 kg, Temperature 337 ^o C	20 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 5.00 kg, Temperature 360 ^o C	20 g/10 min @Load 11.0 lb, Temperature 680 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	5 mm/min; ISO 527
	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	121 MPa	17500 psi	5 mm/min; ISO 527
	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	14.69 GPa	2131 ksi	1 mm/min; ISO 527
	14.94 GPa	2167 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	172 MPa	24900 psi	2 mm/min; ISO 178
	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.9 GPa	1870 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.55 GPa	1965 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	0.490 J/cm	0.918 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.11 J/cm	2.08 ft-lb/in	Reverse Notched; ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Åµm/m-Å°C	8.89 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	16.0 Åµm/m-Å°C	8.89 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
CTE, linear, Transverse to Flow	38.0 Åµm/m-Å°C	21.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	

Thermal Properties	38.0 Åum/m-Å°C Metric	21.1 Åuin/in-Å°F English	Comments ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	195 Å°C	383 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	182 Å°C	360 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	183 Å°C	361 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	184 Å°C	363 Å°F	Rate B/50; ASTM D1525
	187 Å°C	369 Å°F	Rate B/50; ISO 306
	195 Å°C	383 Å°F	Rate B/120; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+15 ohm-cm	6.00e+15 ohm-cm	ASTM D257
Surface Resistance	2.10e+15 ohm	2.10e+15 ohm	ASTM D257

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	Passes	IEC 60695-10-2

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