

SABIC Innovative Plastics ULTEM ATX200F PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Polyetherimide blend. Resin is RoHS compliant. UL94 V0 Listing. US FDA Food Contact compliant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-ATX200F-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	16 g/10 min @Load 5.00 kg, Temperature 340 ^o C	16 g/10 min @Load 11.0 lb, Temperature 644 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	125 MPa	18100 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	50 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	50 mm/min; ISO 527
Elongation at Break	20 %	20 %	50 mm/min; ISO 527
Elongation at Yield	6.5 %	6.5 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Yield Strength	125 MPa	18100 psi	2 mm/min; ISO 178
Flexural Modulus	3.10 GPa	450 ksi	2 mm/min; ISO 178
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 @Temperature -30.0 ^o C	2.38 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.400 J/cm ² @Temperature -30.0	1.90 ft-lb/in ² @Temperature -22.0	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Mechanical Properties	°C Metric	°F English	Comments
Taber Abrasion, mg/1000 Cycles	20	20	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
CTE, linear, Transverse to Flow	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	195 Å°C	383 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	180 Å°C	356 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	205 Å°C	401 Å°F	Rate B/120; ISO 306
	210 Å°C	410 Å°F	Rate A/50; ISO 306
Flammability, UL94	V-2	V-2	UL 94 by SABIC-IP
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.9	2.9	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0010	0.0010	IEC 60250

Electrical Properties	@Frequency 50.0 - 60.0 Metric Hz	@Frequency 50.0 - 60.0 English Hz	Comments
	0.0050	0.0050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	150 V	150 V	IEC 60112

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

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