

SABIC Innovative Plastics ULTEM 3452 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

45% Glass fiber and mineral filled, enhanced flow Polyetherimide (Tg 217C) with enhanced dimensional stability. Resin is RoHS compliant.

UL94 V0 and 5VA listing in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-3452-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	8.0 g/10 min @Load 5.00 kg, Temperature 360 °C	8.0 g/10 min @Load 11.0 lb, Temperature 680 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	50 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	50 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
Flexural Strength	150 MPa	21800 psi	2 mm/min; ISO 178
Flexural Modulus	12.0 GPa	1740 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
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1U
	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	1.40 J/cm ²	6.66 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Charpy Impact, Notched Mechanical Properties	0.400 J/cm ² Metric	1.90 ft-lb/in ² English	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	10.6 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	36.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	20.0 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	207 Å°C	405 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	200 Å°C	392 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	205 Å°C	401 Å°F	Rate B/50; ISO 306
	205 Å°C	401 Å°F	Rate B/120; ISO 306
Glass Transition Temp, Tg	217 Å°C	423 Å°F	
Flammability, UL94	V-0 @Thickness 0.770 mm	V-0 @Thickness 0.0303 in	UL 94
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
	3.7 @Frequency 50.0 - 60.0 Hz	3.7 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm @Thickness 3.20 mm	406 kV/in @Thickness 0.126 in	in oil; IEC 60243-1

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.015	0.015	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	125 V	125 V	IEC 60112

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