

SABIC Innovative Plastics ULTEM 2210F PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming. US FDA Food Contact compliant in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2210F-PEI.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.550 %	0.550 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	6.80 GPa	986 ksi	1 mm/min; ISO 527
Tensile Modulus	6.89 GPa	999 ksi	5 mm/min; ASTM D638
	210 MPa	30500 psi	2 mm/min; ISO 178
Flexural Yield Strength	227 MPa	32900 psi	1.3 mm/min, 50 mm span; ASTM D790
	6.50 GPa	943 ksi	2 mm/min; ISO 178
Flexural Modulus	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D790
	Izod Impact, Unnotched	4.75 J/cm	8.90 ft-lb/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	@Temperature -22.0	

Mechanical Properties	°C Metric	°F English	Comments
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	211 °C @Thickness 6.40 mm	412 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	212 °C	414 °F	Rate B/50; ISO 306
	218 °C	424 °F	Rate B/120; ISO 306
	226 °C	439 °F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 °C	423 °F	

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