

SABIC Innovative Plastics ULTEM 2210K PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
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
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 6.60 kg, Temperature 337 ^o C	13 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238
Melt Index of Compound	16 g/10 min @Load 5.00 kg, Temperature 360 ^o C	16 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	139 MPa	20200 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	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527
	6.89 GPa	999 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	227 MPa	32900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Unnotched	4.75 J/cm	8.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÅ²	2.38 ft-lb/inÅ²	80*10*4; ISO 180/1A
	5.00 kJ/mÅ²	2.38 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Unnotched (ISO)	30.0 kJ/mÅ²	14.3 ft-lb/inÅ²	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.800 J/cmÅ²	3.81 ft-lb/inÅ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	13.0 J	9.59 ft-lb	ASTM D3763
Dart Drop, Total Energy	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	25.0 Åµm/m-Å°C	13.9 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	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	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	
Deflection Temperature at 0.46 MPa	210 Å°C	410 Å°F	unannealed; ASTM D648

(56 psi) Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	209 Â°C	408 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	211 Â°C	412 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	212 Â°C	414 Â°F	Rate B/50; ISO 306
	218 Â°C	424 Â°F	Rate B/120; ISO 306
	225 Â°C	437 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	

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