

SABIC Innovative Plastics Ultem 2212 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% Milled glass filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-2212-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	on tensile bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	8.0 %	8.0 %	5 mm/min; ISO 527
Tensile Modulus	4.50 GPa	653 ksi	1 mm/min; ISO 527
Flexural Yield Strength	135 MPa	19600 psi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	30.0 kJ/m ² @Temperature 23.0 Â°C	14.3 ft-lb/in ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² - Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	202 Â°C	396 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	189 Â°C	372 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	211 Â°C	412 Â°F	Rate B/120; ISO 306
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
UL RTI, Electrical	170 Â°C	338 Â°F	UL 746B
UL RTI, Mechanical with Impact	170 Â°C	338 Â°F	UL 746B
UL RTI, Mechanical without Impact	170 Â°C	338 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94

Thermal Properties	@Thickness 0.410 mm Metric	@Thickness 0.0161 in English	Comments
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