

SABIC Innovative Plastics ULTEM 8015 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Polyetherimide blend. Meets FAR 25.853 and OSU 100/100 with low toxicity, smoke, and flame evolution. ECO Conforming.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-8015-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.20 mm	0.0040 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	2.7 g/10 min @Load 6.60 kg, Temperature 295 Å°C	2.7 g/10 min @Load 14.6 lb, Temperature 563 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.0 MPa	12900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	80 %	80 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.30 GPa	479 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	144 MPa	20900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.17 GPa	460 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	20.82 J/cm @Thickness 3.20 mm	39.00 ft-lb/in @Thickness 0.126 in	ASTM D256
Dart Drop, Total Energy	71.0 J	52.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	56.0 J @Temperature -30.0 Å°C	41.3 ft-lb @Temperature -22.0 Å°F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	187 Â°C	369 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Descriptive Properties	Value	Comments
OSU total heat release (2 minute test)	45kW-min/m^2	FAR 25.853
OSU peak heat release rate (5 minute test)	80kW/m^2	FAR 25.853

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