

SABIC Innovative Plastics ULTEM D9065 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Polyetherimide blend. Meets FAR 25.853 and OSU 65/65 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-D9065-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15.6 g/10 min @Load 6.60 kg, Temperature 337 Â°C	15.6 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	100 %	100 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
	0.960 J/cm @Temperature -30.0 Â°C	1.80 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
	20.29 J/cm @Thickness 3.20 mm	38.01 ft-lb/in @Thickness 0.126 in	ASTM D256
Dart Drop, Total Energy	67.0 J	49.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	58.0 J	42.8 ft-lb	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	Instrumented Impact Energy @ peak; KJ/m ² 25.853

Descriptive Properties	Value	Comments
OSU total heat release (2 minute test)	10kW-min/m ²	FAR 25.853
OSU peak heat release rate (5 minute test)	50kW/m ²	FAR 25.853

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