

SABIC Innovative Plastics ULTEM 4001 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

PTFE filled, standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-4001-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 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
Melt Flow	9.5 g/10 min @Load 6.60 kg, Temperature 337 Â°C	9.5 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	ASTM D785
Tensile Strength, Yield	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	40 %	40 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.35 GPa	486 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	151 MPa	21900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
	12.81 J/cm @Thickness 3.20 mm	24.00 ft-lb/in @Thickness 0.126 in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.25	0.25	steel; ASTM D1894
K (wear) Factor	54.4 x 10 ⁻⁸ mmÂ³/N-M	27.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	PV=2000 psi-fpm vs Self; SABIC Method
	145 x 10 ⁻⁸ mmÂ³/N-M	72.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	PV=2000 psi-fpm vs Self; SABIC Method
Limiting Pressure Velocity	1.90 MPa-m/sec	54200 psi-ft/min	0.51 m/s; SABIC Method

Taber Abrasion, mm/1000 Cycles Mechanical Properties	2.0 Metric	2.0 English	CS-17, 1 kg; ASTM D1044 Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 Å°C @Thickness 6.40 mm	392 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 Å°C	423 Å°F	
UL RTI, Electrical	170 Å°C	338 Å°F	UL 746B
UL RTI, Mechanical with Impact	170 Å°C	338 Å°F	UL 746B
UL RTI, Mechanical without Impact	170 Å°C	338 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.380 mm	V-0 @Thickness 0.0150 in	UL 94
	5VA @Thickness 1.49 mm	5VA @Thickness 0.0587 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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