

SABIC Innovative Plastics ULTEM 4001 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

PTFE filled, standard flow Polyetherimide (Tg 217C). Resin is RoHS compliant. UL94 V0 and 5VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-4001-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	1.1 %	1.1 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 360 ^o C	13 g/10 min @Load 11.0 lb, Temperature 680 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	50 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	50 mm/min; ISO 527
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Yield Strength	125 MPa	18100 psi	2 mm/min; ISO 178
Flexural Modulus	3.00 GPa	435 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 ^o C	3.81 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.900 J/cm ² @Temperature -30.0	4.28 ft-lb/in ² @Temperature -22.0	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Mechanical Properties	°C Metric	°F English	Comments
Limiting Pressure Velocity	2.80 MPa-m/sec	79900 psi-ft/min	0.51 m/s; SABIC Method
Taber Abrasion, mg/1000 Cycles	2.0	2.0	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.0 Åµm/m-Å°C	21.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
CTE, linear, Transverse to Flow	40.0 Åµm/m-Å°C	22.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	200 Å°C	392 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	190 Å°C	374 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	208 Å°C	406 Å°F	Rate B/50; ISO 306
	210 Å°C	410 Å°F	Rate B/120; ISO 306
	215 Å°C	419 Å°F	Rate A/50; ISO 306
Glass Transition Temp, Tg	217 Å°C	423 Å°F	
Flammability, UL94	V-1	V-1	UL 94 by SABIC-IP
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	48 %	48 %	ISO 4589
Glow Wire Test	960 Å°C	1760 Å°F	IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Comparative Tracking Index	150 V	150 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China