SABIC Innovative Plastics ULTEM 2410 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

40% Glass fiber filled, enhanced 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-2410-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D792
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ASTM D570
Moisture Absorption at Equilibrium	0.90 %	0.90 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.2 g/10 min @Load 6.60 kg, Temperature 337 Â°C	5.2 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Tensile Strength at Break	179 MPa	26000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	186 MPa	27000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.72 GPa	1700 ksi	5 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	11.72 GPa	1700 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Âµm/m-Â°C @Temperature -20.0 -	8.00 Âµin/in-Â°F @Temperature -4.00 -	ASTM E 831

Thermal Properties	Metric	English	Comments
	150 Â°C	302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C @Thickness 6.40 mm	419 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C @Thickness 6.40 mm	414 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	234 Â°C	453 Â°F	Rate B/50; ASTM D1525
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 @Thickness 0.250 mm	V-0 @Thickness 0.00984 in	UL 94
	5VA @Thickness 1.47 mm	5VA @Thickness 0.0579 in	UL 94
Oxygen Index	54 %	54 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+16 ohm-cm	1.50e+16 ohm-cm	ASTM D257
Dielectric Constant	3.7 @Frequency 1000 Hz	3.7 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	24.0 kV/mm @Thickness 1.60 mm	610 kV/in @Thickness 0.0630 in	in oil; ASTM D149
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	0.00 - 100 V	0.00 - 100 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
NBS Smoke Density, Flaming, Ds 4 min	1	ASTM E 662

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