SABIC Innovative Plastics ULTEM 2410EPR PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

40% Glass fiber filled, high flow Polyetherimide (Tg 217C) with internal mold release for enhanced electroplatability. ECO Conforming, UL94 V0 listing.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2410EPR-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Density	1.56 g/cc	0.0564 lb/inÂ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	on Tensile Bar; SABIC Method
	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.9 g/10 min @Load 6.60 kg, Temperature 337 Â°C	8.9 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238
Melt Index of Compound	11 g/10 min @Load 5.00 kg, Temperature 360 Â°C	11 g/10 min @Load 11.0 lb, Temperature 680 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	165 MPa	23900 psi	ISO 2039-1
Tensile Strength at Break	165 MPa	23900 psi	Type I, 5 mm/min; ASTM D638
	170 MPa	24700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	165 MPa	23900 psi	Type I, 5 mm/min; ASTM D638
	170 MPa	24700 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Elongation at Yield	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	1 mm/min; ISO 527
	11.1 GPa	1610 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	220 MPa	31900 psi	2 mm/min; ISO 178
	240 MPa	34800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.50 GPa	1380 ksi	2 mm/min; ISO 178
	10.65 GPa	1545 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.10 J/cm	7.68 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	10.0 kJ/mÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
	30.0 kJ/mÂ² @Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	3.50 J/cmÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cmÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 150 Â°C	@Temperature -40.0 - 302 Â°F	ASTM E 831
	15.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	8.33 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
	45.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	25.0 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	206 Â°C	403 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	208 Â°C	406 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	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)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C	401 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	204 Â°C @Thickness 3.20 mm	399 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	208 Â°C @Thickness 6.40 mm	406 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	214 Â°C	417 Â°F	Rate B/50; ISO 306
	215 Â°C	419 Â°F	Rate B/120; ISO 306
	223 Â°C	433 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
Flammability, UL94	V-0	V-0	UL 94

Thermal Properties	Metric @Thickness 0.400 mm	English @Thickness 0.0157 in	Comments

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL 746A
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 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
Ball Pressure Test, 125Â°C +/- 2Â°C	Passes	IEC 60695-10-2

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