SABIC Innovative Plastics ULTEM 2410R PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

40% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C) with internal mold release. 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-2410R-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D792
Density	1.61 g/cc	0.0582 lb/inÂ³	ISO 1183
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
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	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 360 Â°C	7.0 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	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.5 GPa	1670 ksi	1 mm/min; ISO 527
Flexural Strength	240 MPa	34800 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.30 J/cm	8.06 ft-lb/in	ASTM D4812
Izod Impact, Unnotched (ISO)	35.0 kJ/mÂ²	16.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
	35.0 kJ/mÂ² @Temperature -30.0	16.7 ft-lb/inÂ² @Temperature -22.0	80*10*4; ISO 180/1U

Mechanical Properties	Metric Â°C	English Â°F	Comments
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	4.00 J/cmÂ² @Temperature -30.0 Â°C	19.0 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Taber Abrasion, mg/1000 Cycles	20	20	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	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 23.0 - 150 Â°C	25.0 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	217 Â°C	423 Â°F	Rate B/50; ISO 306
	225 Â°C	437 Â°F	Rate B/120; ISO 306
	230 Â°C	446 Â°F	Rate A/50; ISO 306
	234 Â°C	453 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
UL RTI, Electrical	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.250 mm	V-0 @Thickness 0.00984 in	UL 94
	5VA @Thickness 1.50 mm	5VA @Thickness 0.0591 in	UL 94
Oxygen Index	48 %	48 %	ISO 4589

Thermal Properties	Metric	English	Comments
Glow Wire Test	960 Â°C @Thickness 3.20 mm	1760 Â°F @Thickness 0.126 in	IEC 60695-2-12

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
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
	3.5 @Frequency 50.0 - 60.0 Hz	3.5 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm @Thickness 3.20 mm	406 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
	26.0 kV/mm @Thickness 1.60 mm	660 kV/in @Thickness 0.0630 in	in oil; IEC 60243-1
	35.0 kV/mm @Thickness 0.800 mm	889 kV/in @Thickness 0.0315 in	in oil; IEC 60243-1
Dissipation Factor	0.0019 @Frequency 1.00e+6 Hz	0.0019 @Frequency 1.00e+6 Hz	IEC 60250
	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	IEC 60250
	0.0025 @Frequency 50.0 - 60.0 Hz	0.0025 @Frequency 50.0 - 60.0 Hz	IEC 60250

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

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