

SABIC Innovative Plastics Ultem HU2400 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

40% Glass fiber filled, standard flow Polyetherimide (Tg 217C). For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO 10993 or USP Class VI), food contact compliant. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-HU2400-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D 792
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.40 %	0.40 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 % @Temperature 23.0 ^o C	0.80 % @Temperature 73.4 ^o F	ISO 62
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	5.0 g/10 min @Load 5.00 kg, Temperature 360 ^o C	5.0 g/10 min @Load 11.0 lb, Temperature 680 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	179 MPa	26000 psi	Type I, 5 mm/min; ASTM D 638
	180 MPa	26100 psi	5 mm/min; ISO 527
Tensile Strength, Yield	179 MPa	26000 psi	Type I, 5 mm/min; ASTM D 638
	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	11.5 GPa	1670 ksi	1 mm/min; ISO 527
	11.72 GPa	1700 ksi	5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Flexural Strength	240 MPa	34500 psi	2 mm/min; ISO 178
Flexural Yield Strength	241 MPa	35000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
	11.72 GPa	1700 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.12 J/cm @Temperature 23.0 Â°C	2.10 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched (ISO)	35.0 kJ/mÂ² @Temperature 23.0 Â°C	16.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
	35.0 kJ/mÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	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
Impact Test	28.0 J @Temperature 23.0 Â°C	20.7 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	8.00 Âµin/in-Â°F @Temperature -40.0 - 104 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	14.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	8.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	45.0 Âµm/m-Â°C @Temperature 23.0 -	25.0 Âµin/in-Â°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	150 Å°C Metric	302 Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	212 Å°C	414 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	217 Å°C	423 Å°F	Rate B/50; ISO 306
	225 Å°C	437 Å°F	Rate B/120; ISO 306
	234 Å°C	453 Å°F	Rate B/50; ASTM D 1525
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
Oxygen Index	48 %	48 %	LOI; ISO 4589
Glow Wire Test	960 Å°C	1760 Å°F	Glow Wire Flammability Index; 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
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.5	3.5	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dielectric Strength	26.0 kV/mm	660 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dielectric Strength	35.0 kV/mm	889 kV/in	in oil; IEC 60243-1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	0.0019	0.0019	

Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	IEC 60250 Comments
	0.0025	0.0025	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Comparative Tracking Index	150 V	150 V	IEC 60112

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