

SABIC Innovative Plastics ULTEM 1285 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Transparent Polyetherimide blend. ECO Conforming. US FDA and EU Food Contact compliant in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-1285-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	16 g/10 min @Load 5.00 kg, Temperature 320 ^o C	16 g/10 min @Load 11.0 lb, Temperature 608 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
	75.0 MPa	10900 psi	50 mm/min; ISO 527
Tensile Strength, Yield	110 MPa	16000 psi	5 mm/min; ISO 527
	115 MPa	16700 psi	50 mm/min; ISO 527
Elongation at Break	13.5 %	13.5 %	50 mm/min; ISO 527
	36 %	36 %	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	6.5 %	6.5 %	50 mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min; ISO 527
Flexural Yield Strength	155 MPa	22500 psi	2 mm/min; ISO 178
Flexural Modulus	3.25 GPa	471 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.300 J/cmÂ² @Temperature -30.0 Â°C	1.43 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	36	36	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	29.4 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	53.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	29.4 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	170 Â°C	338 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	158 Â°C	316 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	177 Â°C	351 Â°F	Rate B/50; ISO 306
	180 Â°C	356 Â°F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.60e+16 ohm-cm	6.60e+16 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	3.40e+16 ohm Metric	3.40e+16 ohm English	ROA: IEC 60093 Comments
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.9	2.9	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	
Dissipation Factor	0.0026	0.0026	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.0103	0.0103	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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

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