SABIC Innovative Plastics Ultem LTX300A PEI Copolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Polyetherimide blend with low toxicity, smoke and flame evolution. ECO Compliant, UL94 V0 listing in recognized colors.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-LTX300A-PEI-Copolymer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Density	1.30 g/cc	0.0470 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.70 %	0.70 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	1.25 % @Temperature 23.0 Â°C	1.25 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	on tensile bar; SABIC Method
	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	2.4 g/10 min @Load 6.60 kg, Temperature 295 Â°C	2.4 g/10 min @Load 14.6 lb, Temperature 563 Â°F	ASTM D 1238
	15 g/10 min @Load 5.00 kg, Temperature 340 Â°C	15 g/10 min @Load 11.0 lb, Temperature 644 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	127 MPa	18400 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
	85.0 MPa	12300 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	90.0 MPa	13100 psi	5 mm/min; ISO 527
	97.0 MPa	14100 psi	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Elongation at Break	25 %	25 %	5 mm/min; ISO 527
	30 %	30 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
	3.31 GPa	480 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	130 MPa	18900 psi	2 mm/min; ISO 178
	145 MPa	21000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.20 GPa	464 ksi	2 mm/min; ISO 178
	3.24 GPa	470 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.690 J/cm @Temperature 23.0 Â°C	1.29 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	20.8 J/cm @Thickness 3.20 mm	39.0 ft-lb/in @Thickness 0.126 in	reverse notched; ASTM D 256
Izod Impact, Unnotched	21.0 J/cm @Temperature 23.0 Â°C	39.3 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature -30.0 Â°C	2.38 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	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 @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.600 J/cmÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.700 J/cmÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Gardner Impact	35.0 J @Temperature 23.0 Â°C	25.8 ft-lb @Temperature 73.4 Â°F	ASTM D 3029
Impact Test	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Taber Abrasion, mg/1000 Cycles	15 @Load 1.00 kg	15 @Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	27.8 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
	50.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	27.8 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	27.8 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
	50.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	27.8 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	200 Â°C	392 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	201 Â°C @Thickness 3.20 mm	394 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
	204 Â°C @Thickness 6.40 mm	399 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	185 Â°C	365 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	187 Â°C @Thickness 3.20 mm	369 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	189 Â°C @Thickness 6.40 mm	372 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	200 Â°C	392 Â°F	Rate B/50; ISO 306
	200 Â°C	392 Â°F	Rate B/120; ISO 306
	210 Â°C	410 Â°F	Rate B/50; ASTM D 1525
	210 Â°C	410 Â°F	Rate A/50; ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	UL 94 by SABIC-IP

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

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