

SABIC Innovative Plastics ULTEM LTX300B PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Standard flow Polyetherimide blend with low toxicity, smoke, and flame evolution. ECO Compliant, UL94 V0 listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-LTX300B-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Halogen Content	0.00 %	0.00 %	SABIC Method
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	1.6 g/10 min	1.6 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 295 Â°C	@Load 14.6 lb, Temperature 563 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	88 %	88 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.34 GPa	484 ksi	5 mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Yield Strength	144 MPa	20900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	21.36 J/cm	40.02 ft-lb/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D256
Gardner Impact	35.0 J	25.8 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
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Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	190 Â°C Metric	374 Â°F English	Comments 1; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	140 Â°C	284 Â°F	UL 746B
UL RTI, Mechanical with Impact	115 Â°C	239 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.760 mm	V-0 @Thickness 0.0299 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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