

ULTEM™ LTX300B resin

Polyether Imide
SABIC Innovative Plastics

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

General Information			
UL YellowCard	E121562-221075		
Features	ECO Compliant		
	Low Smoke Emission		
	Low Toxicity		
Agency Ratings	EU Eco		
Processing Method	Injection Molding		
Multi-Point Data	Tensile Fatigue		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (295°C/6.6 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.30 to 0.50	%	
Across Flow : 3.20 mm	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3340	MPa	ASTM D638
Tensile Strength ² (Yield)	96.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	88	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	3210	MPa	ASTM D790
Flexural Strength ⁵			ASTM D790
Yield, 100 mm Span	145	MPa	
Break, 100 mm Span	141	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	2100	J/m	ASTM D256
Gardner Impact (23°C)	35.3	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	191	°C	ASTM D648
RTI Elec	140	°C	UL 746
RTI Imp	115	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Test Method	

Arc Resistance ⁶	PLC 6	ASTM D495
Comparative Tracking Index (CTI)	PLC 4	UL 746
High Amp Arc Ignition (HAI)	PLC 0	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746
Hot-wire Ignition (HWI)	PLC 0	UL 746
Flammability	Nominal Value	Test Method
Flame Rating (0.762 mm)	V-0	UL 94
Halogen Content	0	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	135	°C
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	12	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 60	%
Rear Temperature	310 to 332	°C
Middle Temperature	321 to 343	°C
Front Temperature	332 to 354	°C
Nozzle Temperature	327 to 349	°C
Processing (Melt) Temp	332 to 354	°C
Mold Temperature	93.3 to 135	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.025 to 0.076	mm
NOTE		
1.	5.0 mm/min	
2.	Type I, 5.0 mm/min	
3.	Type I, 5.0 mm/min	
4.	2.6 mm/min	
5.	2.6 mm/min	
6.	Tungsten Electrode	

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