ULTEM™ RESIN LTX300B

REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20190828

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	96	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	88	%	ASTM D 638
Tensile Modulus, 5 mm/min	3340	MPa	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	144	MPa	ASTM D 790
Flexural Stress, brk, 2.6 mm/min, 100 mm span	141	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	3200	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
Izod Impact, Reverse Notched, 3.2 mm	2136	J/m	ASTM D 256
Gardner, 23°C	35	J	ASTM D 3029
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	190	°C	ASTM D 648
Relative Temp Index, Elec [(1)]	140	°C	UL 746B
Relative Temp Index, Mech w/impact [(1)]	115	°C	UL 746B
Relative Temp Index, Mech w/o impact [(1)]	140	°C	UL 746B
PHYSICAL			
Specific Gravity	1.27	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.3 – 0.5	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 295°C/6.6 kgf	1.6	g/10 min	ASTM D 1238
Halogen Content	0	%	SABIC method
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥3	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥0.75	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.75	mm	UL 746A
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS [(1)]			
UL Yellow Card Link	E121562-221075	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
INJECTION MOLDING			
Drying Temperature	135	°C	
Drying Time	4 – 6	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time (Cumulative)	12	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	330 – 355	°C	
Nozzle Temperature	325 – 350	°C	
Front - Zone 3 Temperature	330 – 355	°C	
Middle - Zone 2 Temperature	320 – 345	°C	
Rear - Zone 1 Temperature	310 – 330	°C	
Mold Temperature	95 – 135	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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