

ULTEM™ 1100 resin

Polyether Imide

SABIC Innovative Plastics

Message:

Standard flow Polyetherimide (Tg 217°C). ECO Conforming, UL94 V0, V2 and 5VA listing.

General Information			
UL YellowCard	E121562-101048254		
Features	ECO Compliant		
Agency Ratings	EU Eco		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	8.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3720	MPa	ASTM D638
Tensile Strength ² (Yield)	110	MPa	ASTM D638
Tensile Elongation ³ (Break)	70	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	3720	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	1500	J/m	ASTM D256
Gardner Impact (23°C)	23.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	199	°C	ASTM D648
RTI Elec	170	°C	UL 746
RTI Imp	170	°C	UL 746
RTI Str	170	°C	UL 746
Electrical	Nominal Value	Test Method	
Arc Resistance ⁶	PLC 5	ASTM D495	
Comparative Tracking Index (CTI)	PLC 4	UL 746	
High Amp Arc Ignition (HAI)	PLC 3	UL 746	
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746	
Hot-wire Ignition (HWI)	PLC 1	UL 746	
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
0.400 mm	V-2		

0.750 mm	V-0	
3.00 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	24	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 60	%
Rear Temperature	332 to 399	°C
Middle Temperature	338 to 399	°C
Front Temperature	343 to 399	°C
Nozzle Temperature	343 to 399	°C
Processing (Melt) Temp	349 to 399	°C
Mold Temperature	135 to 163	°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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