

ULTEM™ ATX200 resin

Polyether Imide + PCE

SABIC Innovative Plastics

Message:

High flow Polyetherimide blend. ECO Conforming, UL94 V0 Listing.

General Information			
UL YellowCard	E207780-100218984		
Features	Comply with ECO		
	High liquidity		
Agency Ratings	EU Eco		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	96.5	MPa	ASTM D638
Tensile Elongation ² (Break)	70	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	3170	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	2100	J/m	ASTM D4812
Reverse Notch Izod Impact (3.20 mm)	2100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	191	°C	ASTM D648
RTI Elec	115	°C	UL 746
RTI Imp	115	°C	UL 746
RTI	115	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 4		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.762 mm	V-2		UL 94
1.50 mm	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	135	°C
Drying Time	4.0 - 6.0	hr
Drying Time, Maximum	10	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 - 60	%
Rear Temperature	338 - 360	°C
Middle Temperature	343 - 366	°C
Front Temperature	349 - 371	°C
Nozzle Temperature	349 - 371	°C
Processing (Melt) Temp	349 - 371	°C
Mold Temperature	135 - 163	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.025 - 0.076	mm

NOTE

- | | |
|----|--------------------|
| 1. | Type 1, 5.0 mm/min |
| 2. | Type 1, 5.0 mm/min |
| 3. | 2.6 mm/min |
| 4. | 2.6 mm/min |

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