

ULTEM™ ATX200F resin

Polyether Imide + PCE

SABIC Innovative Plastics

Message:

High flow Polyetherimide blend. Resin is RoHS compliant. UL94 V0 Listing. US FDA Food Contact compliant.

General Information			
UL YellowCard	E45329-100397331		
Features	High liquidity		
	Compliance of Food Exposure		
Agency Ratings	FDA Food Exposure, Not Rated		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (340°C/5.0 kg)	16.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.90	%	ISO 62
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	125	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	95.0	MPa	ISO 527-2/50
Fracture	75.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.5	%	ISO 527-2/50
Fracture	20	%	ISO 527-2/50
Flexural Modulus ²	3100	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	20.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	4.0	kJ/m²	ISO 179/1eA
23°C	4.0	kJ/m²	ISO 179/1eA
Notched Izod Impact ⁴			ISO 180/1A

-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 100 mm span	195	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	180	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	210	°C	ISO 306/A50
--	205	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 150°C	6.0E-5	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 150°C	6.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.23	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (3.20 mm, in Oil)	15	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.90		IEC 60250
60 Hz	2.90		IEC 60250
1 MHz	2.90		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		IEC 60250
60 Hz	1.0E-3		IEC 60250
1 MHz	5.0E-3		IEC 60250
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm, Testing by SABIC	V-2		UL 94
1.50 mm, Testing by SABIC	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	130 - 140	°C	
Drying Time	3.0 - 4.0	hr	
Hopper Temperature	80.0 - 100	°C	
Rear Temperature	320 - 340	°C	
Middle Temperature	330 - 350	°C	
Front Temperature	340 - 360	°C	
Nozzle Temperature	340 - 360	°C	
Processing (Melt) Temp	340 - 380	°C	
Mold Temperature	125 - 140	°C	
NOTE			

1.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4 sp=62mm
4.	80*10*4
5.	120*10*4 mm

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