

ULTEM™ AUT200 resin

Polyether Imide

SABIC Innovative Plastics

Message:

Transparent high flow Polyetherimide (Tg 217C). Very low outgassing and plateout, for automotive lighting applications where highly metallized, reflective surfaces are required. Haze onset temperature of 204C (SABIC IP method)

General Information			
Features	The degassing effect is low to no High liquidity		
Uses	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (360°C/5.0 kg)	25.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	1.3	%	ISO 62
Equilibrium, 23°C, 50% RH	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	105	MPa	ISO 527-2/5
Fracture	85.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	6.0	%	ISO 527-2/5
Fracture	60	%	ISO 527-2/5
Flexural Modulus ¹	3300	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	3.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact ³			ISO 180/1A
-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴			ISO 180/1U

-30°C	No Break		ISO 180/1U
23°C	No Break		ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	33.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 100 mm span ⁵	200	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span ⁶	190	°C	ISO 75-2/Ae
1.8 MPa, unannealed, 64.0mm span ⁷	193	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	211	°C	ISO 306/B50
--	212	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: 23 to 150°C	5.0E-5	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 150°C	5.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	0.0 - 5.0	mm/min	ISO 3795
Additional Information	Nominal Value	Unit	Test Method
Metallized Haze Onset	204	°C	Internal method
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	332 - 399	°C	
Middle Temperature	338 - 399	°C	
Front Temperature	343 - 399	°C	
Nozzle Temperature	343 - 399	°C	
Processing (Melt) Temp	349 - 399	°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.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4		
4.	80*10*4		
5.	120*10*4 mm		
6.	120*10*4 mm		

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