

ULTEM™ AUT200M resin

Polyether Imide
SABIC Innovative Plastics Europe

Message:
Transparent high flow Polyetherimide (Tg 217C) with internal mold release.. 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			
Additive	Mold Release		
Features	High Flow		
	Low to No Outgassing		
Uses	Automotive Applications		
	Lighting Fixtures		
RoHS Compliance	RoHS Compliant		
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) (340°C/5.0 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 to 0.70	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	1.3	%	
Equilibrium, 23°C, 50% RH	0.70	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	140	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	105	MPa	
Break	85.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	60	%	
Flexural Modulus ²	3300	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	10.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength ³			ISO 180/1A
-30°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Unnotched Izod Impact Strength ⁴			ISO 180/1U
-30°C	No Break		
23°C	No Break		
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	190	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	211	°C	ISO 306/B50
--	212	°C	ISO 306/B120
CLTE			
Flow : 23 to 150°C	5.0E-5	cm/cm/°C	
Transverse : 23 to 150°C	5.0E-5	cm/cm/°C	
Thermal Conductivity	0.24	W/m/K	ISO 8302
Additional Information	Nominal Value	Unit	Test Method
Metallized Haze Onset	204	°C	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0 to 120	°C	
Rear Temperature	340 to 395	°C	
Middle Temperature	350 to 405	°C	
Front Temperature	360 to 415	°C	
Nozzle Temperature	350 to 405	°C	
Processing (Melt) Temp	370 to 410	°C	
Mold Temperature	140 to 180	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	120*10*4 mm		

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