

ULTEM™ AUT195 resin

Polyether Imide + PCE

SABIC Innovative Plastics

Message:

High flow Polyetherimide blend for automotive lighting applications where highly metallized, reflective surfaces are required. Haze onset temperature of 195C (SABIC test method).

General Information			
Features	High liquidity		
Uses	Application in Automobile Field		
	Lighting Louver		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	24	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (340°C/5.0 kg)	16.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Across 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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Strength ² (Yield)	96.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	70	%	ASTM D638
Flexural Modulus ⁴	3100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact ⁶			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 ⁷			
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	205	°C	ISO 306/B120
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
Additional Information	Nominal Value	Unit	Test Method
Metallized Haze Onset	195	°C	Internal method
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.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	2.0 mm/min		
5.	80*10*4 sp=62mm		
6.	80*10*4		
7.	120*10*4 mm		

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