

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 Flow		
Uses	Automotive Applications		
	Lighting Louvers		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.26	g/cm ³	ASTM D792
--	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			Internal Method
Flow : 3.20 mm	0.50 to 0.70	%	
Across Flow ¹	0.50 to 0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	0.90	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Strength ² (Yield)	96.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	70	%	ASTM D638
Flexural Modulus			
100 mm Span ⁴	3170	MPa	ASTM D790
-- ⁵	3100	MPa	ISO 178
Flexural Strength ⁶ (Yield, 100 mm Span)	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Notched Izod Impact			
23°C	53	J/m	ASTM D256
-30°C ⁸	5.0	kJ/m ²	ISO 180/1A

23°C ⁹	5.0	kJ/m ²	ISO 180/1A
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
Heat Deflection Temperature			
0.45 MPa, Unannealed, 100 mm Span ¹⁰	195	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 6.40 mm	190	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ¹¹	180	°C	ISO 75-2/Ae
Vicat Softening Temperature	205	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 150°C	6.0E-5	cm/cm/°C	
Transverse : 23 to 150°C	6.0E-5	cm/cm/°C	
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 to 140	°C	
Drying Time	3.0 to 4.0	hr	
Hopper Temperature	80.0 to 100	°C	
Rear Temperature	320 to 340	°C	
Middle Temperature	330 to 350	°C	
Front Temperature	340 to 360	°C	
Nozzle Temperature	340 to 360	°C	
Processing (Melt) Temp	340 to 380	°C	
Mold Temperature	125 to 140	°C	
NOTE			
1.	Tensile Bar		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	2.6 mm/min		
5.	2.0 mm/min		
6.	2.6 mm/min		
7.	80*10*4 sp=62mm		
8.	80*10*4		
9.	80*10*4		
10.	120*10*4 mm		
11.	120*10*4 mm		

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