

Technical Information



ALTUGLAS™ Diffuse 302 Grey

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.2 g/10 min	1.2 g/10 min	ISO 1133
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ASTM D955
Water Absorption			ISO 62
Equilibrium, 73°F (23°C), 50% RH	0.30 %	0.30 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ISO 527-2/50
Yield, 73°F (23°C)	7980 psi	55.0 MPa	
Break, 73°F (23°C)	7980 psi	55.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 73°F (23°C)	6.0 %	6.0 %	
Break, 73°F (23°C)	13 %	13 %	
Flexural Modulus (73°F (23°C))	312000 psi	2150 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.2 ft-lb/in ²	2.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	15 ft-lb/in ²	31 kJ/m ²	
Notched Izod Impact Strength (73°F (23°C))	1.4 ft-lb/in ²	3.0 kJ/m ²	ISO 180/1A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	67	67	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Annealed	199 °F	93.0 °C	
Vicat Softening Temperature	> 207 °F	> 97.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.1 mm)	> 1200 °F	> 650 °C	
0.12 in (3.1 mm)	> 1200 °F	> 650 °C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (78.74 mil (2000 µm))	13.0 %	13.0 %	ASTM D1003
Haze	100 %	100 %	ASTM D1003
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr	
Rear Temperature	428 to 464 °F	220 to 240 °C	
Middle Temperature	446 to 482 °F	230 to 250 °C	
Front Temperature	464 to 500 °F	240 to 260 °C	
Nozzle Temperature	464 to 500 °F	240 to 260 °C	
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C	
Mold Temperature	158 to 176 °F	70 to 80 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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