

Technical Information



ALTUGLAS™ HFI-10 Super Matt

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)	1.6 g/10 min	1.6 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 (Break, 73°F (23°C))	7250 psi	50.0 MPa	ISO 527-2/50
Tensile Strain (Break, 73°F (23°C))	15 %	15 %	ISO 527-2/50
Flexural Modulus (73°F (23°C))	276000 psi	1900 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.6 ft-lb/in ²	3.4 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	16 ft-lb/in ²	33 kJ/m ²	ISO 179/1eU
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	54	54	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	187 °F	86.0 °C	ISO 75-2/A
Vicat Softening Temperature	> 199 °F	> 93.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (11.81 mil (300 µm))	93.0 %	93.0 %	ASTM D1003
Haze (11.81 mil (300 µm))	90.0 %	90.0 %	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	167 to 185 °F	75 to 85 °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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