

Technical Information



PLEXIGLAS® Frosted DR®-66080

Overview

Plexiglas® Frosted DR®-66080 is a thermoplastic acrylic resin formulated for injection molding and extrusion applications. It is characterized by its high impact resistance, and translucent or frosted appearance. It exhibits exceptional light transmission, high haze and has a textured surface when extruded.

Automotive Specifications

- CHRYSLER MS-DB-16 CPN3467

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.16 g/cm ³	1.16 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80 g/10 min	0.80 g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 8.0E-3 in/in	0.30 to 0.80 %	ASTM D955
Water Absorption (24 hr)	0.30 %	0.30 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ASTM D638
Tensile Strength (Break)	7540 psi	52.0 MPa	ASTM D638
Tensile Elongation (Break)	38 %	38 %	ASTM D638
Flexural Modulus	334000 psi	2300 MPa	ASTM D790
Flexural Strength (Break)	12500 psi	86.2 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.71 ft-lb/in	38 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	50	50	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load ¹			ASTM D648
66 psi (0.45 MPa), Annealed	192 °F	89.0 °C	
264 psi (1.8 MPa), Annealed	174 °F	79.0 °C	
Vicat Softening Temperature			
--	205 °F	96.1 °C	ASTM D1525 ²
--	185 °F	85.0 °C	ASTM D1525 ³
Thermal Conductivity	1.4 Btu·in/hr/ft ² °F	0.20 W/m/K	ASTM C177
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 (78.74 mil (2000 µm))	92.0 %	92.0 %	ASTM D1003
Haze (78.74 mil (2000 µm))	97.0 %	97.0 %	ASTM D1003
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
ASTM Classification	PMMA 0131T1V1	PMMA 0131T1V1	ASTM D788

Notes

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

¹ Annealing Cycle: 4 hours @ 80°C (176°F)

² Rate A (50°C/h), Loading 1 (10 N)

³ Rate A (50°C/h), Loading 2 (50 N)

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