

Technical Information



PLEXIGLAS® H30

Overview

PLEXIGLAS® H30 is a thermoplastic acrylic resin formulated for capstock coextrusion with adhesion to HIPS substrate. It is designed primarily for sanitary and interior applications.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.15 g/cm ³	1.15 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.7 g/10 min	4.7 g/10 min	ASTM D1238
Water Absorption (24 hr)	0.41 %	0.41 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	164000 psi	1130 MPa	ASTM D638
Tensile Strength (Yield)	4600 psi	31.7 MPa	ASTM D638
Tensile Elongation (Break)	80 %	80 %	ASTM D638
Flexural Modulus	204000 psi	1410 MPa	ASTM D790
Flexural Strength (Yield)	6800 psi	46.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.90 ft-lb/in	48 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	14	14	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load ¹			ASTM D648
66 psi (0.45 MPa), Annealed	190 °F	87.8 °C	
264 psi (1.8 MPa), Annealed	170 °F	76.7 °C	
Vicat Softening Temperature			
--	201 °F	93.9 °C	ASTM D1525 ²
--	176 °F	80.0 °C	ASTM D1525 ³
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (125.0 mil (3175 µm))	91.5 %	91.5 %	ASTM D1003
Haze (125.0 mil (3175 µm))	1.20 %	1.20 %	ASTM D1003

Extrusion Notes

Recommended Drying Conditions: 170 °F (77 °C) for a minimum of 4 hours at -40°F (-40°C) dew point or < 0.06% moisture content.

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 at 176 °F (80 °C)

² Rate A (50°C/h), Loading 1 (10 N)

³ Rate A (50°C/h), Loading 2 (50 N)

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