

PLEXIGLAS® Frosted V045-68177

ACRYLIC RESIN

Typical Properties¹

	Plexiglas® Frosted V045-68177	Units	Test Method
Physical			
Melt Flow Rate (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Specific Gravity	1.18	–	ASTM D792
Mold Shrinkage	0.3 - 0.8	%	ASTM D955
Water Absorption (24 hr immersion)	0.4	% weight gain	ASTM D570
Mechanical			
Tensile Strength @ Maximum	71 (10.3)	MPa (kpsi)	ASTM D638
Tensile Elongation @ Break	6	%	ASTM D638
Tensile Modulus	3.2 (470)	GPa (kpsi)	ASTM D638
Flexural Strength @ Maximum	106 (15.4)	MPa (kpsi)	ASTM D790
Flexural Modulus	3.2 (470)	GPa (kpsi)	ASTM D790
Notched Izod Impact @ 23°C (73°F)	16 (0.3)	J/m (ft-lb/in)	ASTM D256
Rockwell Hardness	94	M-scale	ASTM D785
Thermal			
DTUFL (0.455 MPa/66 psi; annealed) ²	94 (202)	°C (°F)	ASTM D648
DTUFL (1.82 MPa/264 psi; annealed) ²	93 (199)	°C (°F)	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	103 (217)	°C (°F)	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	97 (207)	°C (°F)	ASTM D1525
Thermal Conductivity	1.3	BTU/hr-ft ² -°F/in	ASTM C177
Flammability	HB	Class	ASTM D635
Optical³			
Refractive Index (N _d @ 23°C/73°F)	NA	–	ASTM D542
Luminous Transmission (2.0 mm/0.080")	92	%	ASTM D1003
Haze (2.0 mm/0.080")	97	%	ASTM D1003
Classification			
ASTM Classification	PMMA 0131T1V1	–	ASTM D788

1 - Values reported are averages measured on 3.2 mm (0.125") thick samples (unless otherwise noted) and should not be used for specification purposes.

2 - Deflection Temperature Under Flexural Load (DTUFL) Annealing Cycle: 4 hours @80°C (176°F).

3 - Optical properties measured using extruded sheet samples, and haze reading >30% reported for informational purposes.

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