

PLEXIGLAS® V825T

ACRYLIC RESIN

Typical Properties

	Value	Units	Test method
Rheological			
Melt Flow Rate	3.5	g/10 min	ISO 1133, 230°C/3.8 kg
Melt Volume-flow Rate	3.4	cm ³ /10 min	ISO 1133, 230°C/3.8 kg
Mechanical			
Tensile Modulus	3300	MPa	ISO 527-2/1A/1
Tensile Strength @ Yield	70	MPa	ISO 527-2/1A/5
Tensile Strength @ Break	70	MPa	ISO 527-2/1A/5
Tensile Strain @ Yield	5	%	ISO 527-2/1A/5
Tensile Strain @ Break	5	%	ISO 527-2/1A/5
Flexural Stress @ Conventional Deflection	95	MPa	ISO 178, Method A
Flexural Modulus	3200	MPa	ISO 178, Method A
Izod Notched Impact Strength	2	kJ/m ²	ISO 180/A
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179-1/1eU
Charpy Notched Impact Strength	2	kJ/m ²	ISO 179-1/1eA
Rockwell Hardness	97	M-Scale	ISO 2039-2
Thermal			
Temperature of Deflection Under Load	99	°C	ISO 75-2, Method A, 1.8 MPa
Temperature of Deflection Under Load	104	°C	ISO 75-2, Method B, 0.45 MPa
Vicat Softening Temperature	113	°C	ISO 306/A50, 10N
Vicat Softening Temperature	106	°C	ISO 306/B50, 50N
Optical			
Refractive Index	1.49	–	ISO 489, N _d @ 23°C
Luminous Transmittance	92	%	ASTM D1003, 3.2 mm
Haze	<1	%	ASTM D1003, 3.2 mm
Other			
Water Absorption	0.3	% weight gain	ISO 62, Method 1, 23°C
Density	1.19	g/cm ³	ISO 1183
Mold Shrinkage	0.2-0.6	%	ISO 294

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