



Plexiglas® V825T-LPL®

Acrylic Resin Technical Data Sheet

PROPERTIES	VALUE	UNIT OF MEASURE	TEST METHOD
GENERAL CHARACTERISTICS			
Density (23°C/73.4°F)	1.19	g/cm ³	ISO 1183
Water Absorption, 24H (23°C/73.4°F, 50% HR)	0.3	%	ISO 62
Mold Shrinkage	0.2 - 0.6	%	ASTM D955
RHEOLOGICAL PROPERTIES			
Melt Index (230°C/446°F, 3.8kg)	2.8	g/10min	ISO 1133
PROCESS – Melt Temperature (Min-Max)	230-250	°C	—
	446-482	°F	
PROCESS – Mold Temperature (Min-Max)	60-90	°C	—
	140-194	°F	
PROCESS – Drying Conditions (4H)	85-90	°C	—
	185-194	°F	
MECHANICAL PROPERTIES			
Tensile Strength at Yield (23°C/73.4°F)	70	MPa	ISO 527
Elongation at Break (23°C/73.4°F)	6	%	ISO 527
Flexural Modulus (23°C/73.4°F)	3300	MPa	ISO 178
Maximum Flexural Stress (23°C/73.4°F)	103	MPa	ISO 178
Compressive Strength (23°C/73.4°F)	117	MPa	ISO 604
Charpy Impact Resistance – Un-notched (23°C/73.4°F)	20	kJ/m ²	ISO 179-1EU
Charpy Impact Resistance – Notched (23°C/73.4°F)	2	kJ/m ²	ISO 179-1EA
Izod Impact Resistance – Notched (23°C/73.4°F)	1.8	kJ/m ²	ISO 180
Surface Hardness (Rockwell Scale M, (23°C/73.4°F))	97	HRM	ASTM D785
OPTICAL PROPERTIES			
Refractive Index – Method A (23°C/73.4°F)	1.49	—	ISO 489
Light Transmittance (3mm, 23°C/73.4°F)	92.5	%	ASTM D1003
Haze (3mm, 23°C/73.4°F)	0.5	%	ASTM D1003
THERMAL PROPERTIES			
Vicat Softening Point (B50 (50N))	108/226	°C/°F	ISO 306
HDT (1.82 MPa) ²	100/212	°C/°F	ISO 75
Coefficient of Linear Expansion (-30°C/-22°F ; 23°C/73.4°F)	65	10 ⁻⁶ K	ASTM D696
Specific Heat	2093	J/(kg°C)	—
FLAMMABILITY			
Fire Resistance (3.2mm)	HB	Class	UL-94

JNS 1019

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