

Product Data - V-Cast Acrylic



Properties	ASTM	Unit	Value
Optical			
Light Transmittance	D1003	%	92
Refractive Index	D542		1.49
Specific Gravity	D792		1.19
Thermal			
Hot Forming Temp	-	°C	170-190
Heat Distortion Temp	D648	°C	100
Coefficient of Linear Thermal Expansion	D696	μ m/m/°C	6x10 ⁻⁵
Specific Heat	-	Cal/gr°C	0.35
Mechanical			
Tensile Strength	D638		
Rupture		kg/cm ²	740
Modulus of Elasticity		kg/cm ²	3x10 ⁻⁴
Elongation at Rupture		%	3.0
Flexural Strength	D790		
Rupture		kg/cm ²	1,200
Modulus of Elasticity		kg/cm ²	3x10 ⁴
Compressive Strength	D695		
Yield		kg/cm ²	1,260
Modulus of Elasticity		kg/cm ²	3x10 ⁴
Shear Strength	D732	kg/cm ²	630
Impact Strength (Notched)	D256	kg-cm/cm	2.0
		(ft-lb/in)	(0.37)
Rockwell Hardness	D785		M-100
Electrical			
Surface Resistivity	-	ohm	> 10 ¹³
Volume Resistivity	D257	ohm cm	> 10 ¹⁴
Dielectric Strength	D149	kv/mm	20
Miscellaneous			
Flammability	UL #E320835		HB
Water Absorption (24Hrs)	D570	%	0.3
Odor	-		None
Taste	-		None

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