

ACRYLIC (PMMA) TECHNICAL DATA

Typical Values		Unit	Property	No.
Extruded Acrylic	Cast Acrylic			
1.19	1.19	g/cm ³	Density	1
60 – 70	70 – 80	MPa	Tensile Strength	2
2800 – 3100	3000 – 3300	MPa	Tensile Modulus	3
90 – 110	107 – 116	MPa	Flexural Strength	4
2700 – 3100	3030 – 3210	MPa	Flexural Modulus	5
3 – 5	4 – 5.5	%	Elongation at Break	6
0.35 – 0.37	0.38	-	Poisson's Ratio	7
0.2	0.2	%	Water Absorption (24h)	8
7.0 – 7.5	7.7 – 7.8	/°C ×10 ⁻⁵	Thermal Expansion Coefficient	9
100 – 105	105 – 110	°C	Vicat Softening Temperature	10
-40 to +70	-80 to +80	°C	Service Temperature	11
≥ 90	≥ 92	%	Light Transmittance (Clear, 3mm)	12
1.49	1.49	-	Refractive Index	13
100 – 101	101 – 102	M	Rockwell Hardness	14
> 10 ¹⁴	> 10 ¹⁴	Ω	Surface Resistivity	15
15 – 20	15 – 20	kV/mm	Dielectric Strength	16
> 10 ¹⁵	> 10 ¹⁵	Ω·cm	Volume Resistivity	17



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