



ADVANCED MATERIALS

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Cast Acrylic Tube Properties

Physical Properties	Test Method	Units	Values
Specific Gravity	DIN 53479	g/cm ³	1.19
Water Absorption	DIN 53495	% by wt	0.21
Optical Properties	Test Method	Units	Values
Optical Refractive Index	D-542		1.49
Light Transmission-Total	D-1003	%	92
Mechanical Properties	Test Method	Units	Values
Tensile Strength - Max.	D-638	psi	10,000
Tensile Elongation - Max.	D-638	%	3.0
Flexural Strength - Max.	D-790	psi	17,000
Rockwell Hardness	D-785		M-100
Thermal Properties	Test Method	Units	Values
Maximum Recommended Continuous Service Temperature		°F	170-190
Softening Point		°F	210-220
Melting Temperature		°F	300-315
Flammability	UL94		HB

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.