



Plexiglas® V052i

Acrylic Resin Technical Data Sheet

PROPERTIES	VALUE	UNIT OF MEASURE	TEST METHOD
PHYSICAL CHARACTERISTICS			
Melt Flow Rate	3.0	g/10min	ASTM D1238, 230°C/3.8kg
Specific Gravity	1.18	—	ASTM D792
Mold Shrinkage	0.2 - 0.6	%	ASTM D955
Water Absorption, 24H	0.3-0.6	% weight gain	ASTM D570
MECHANICAL PROPERTIES			
Tensile Strength @ Maximum	9,200	psi	ASTM D638
Tensile Elongation @ Break	5	%	ASTM D638
Tensile Modulus	410,000	psi	ASTM D638
Flex Strength @ Maximum	14,000	psi	ASTM D790
Flexural Modulus	420,000	psi	ASTM D790
Notched Izon Impact	0.4	ft-lb/in notch	ASTM D256
Rockwell Hardness	84	M-scale	ASTM D785
THERMAL PROPERTIES			
HDT - 0.45 MPa	217	°F	ASTM D648, Method A, 0.45 MPa
HDT - 1.82 MPa	207	°F	ASTM D648, Method A, 1.82 MPa
Vicat Softening Point - 10N	234	°F	ASTM D1525, Rate A, 10N
Vicat Softening Point - 50N	217	°F	ASTM D1525, Rate A, 50N
Thermal Conductivity	1.3	BTU/hr*ft²*F/in²	ASTM C177
Flammability	HB	Class	ASTM UL94
OPTICAL			
Refractive Index	1.49	—	ASTM D542
Luminous Transmittance	91	%	ASTM D1003, 0.125"
Haze	1.5	%	ASTM D1003, 0.125"
CLASSIFICATION			
ASTM Classification	PMMA 0211V3	—	ASTM D788

Data given are average values and should not be used for specification purposes.
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