CA-51 Polymers

Typical Properties

Mechanical	TEST METHOD	UNITS	CA-51
Tensile Strength	ASTM D638	psi	8100
Elongation	ASTM D638	%	2.6
Modulus of Elasticity	ASTM D638	psi	419000
Flexural Strength	ASTM D790	psi	14800
Flexural Modulus	ASTM D790	psi	432000
Impact Strength – Izod (Notched)	ASTM D256	ft-lb/in	0.3
Impact Strength – Falling Weight (1/8")	ASTM D5420 GB	in-lb	2
Rockwell Hardness	ASTM D785	M scale	80

Thermal	TEST METHOD	UNITS	CA-51
Vicat Softening Temperature	ASTM D1525	°F	201
Heat Deflection Temperature Under Load (264 psi)	ASTM D648	°F	168
Melt Flow Rate	ASTM D1238	g/10 min	15
Coefficient of Linear Thermal Expansion (-30 to 30°C)	ASTM D696	mm/(mm-oC)	6 X 10^-5
Molding Shrinkage	ASTM D955	%	0.2-0.6

Optical	TEST METHOD	UNITS	CA-51
Luminous Transmittance	ASTM D1003	%	92
Haze	ASTM D1003	%	<1.0
Refractive Index	ASTM D542	-	1.49
Yellowness Index	ASTM D1925	-	< 1.0

Other	TEST METHOD	UNITS	CA-51
Specific Gravity	ASTM D792	-	1.19
Flammability	UL 94	-	HB
Relative Thermal Index	UL 746 ABC	°C	85, f2

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.

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