CA-81 FDA Polymers

Typical Properties

Mechanical	TEST METHOD	UNITS	CA-81 FDA
Tensile Strength	ASTM D638	psi	9700
Elongation	ASTM D638	%	4
Modulus of Elasticity	ASTM D638	psi	500000
Flexural Strength	ASTM D790	psi	16100
Impact Strength – Izod (Notched)	ASTM D256	ft-lb/in	0.35
Impact Strength – Falling Weight (1/8")	ASTM D5420 GB	in-lb	2

Thermal	TEST METHOD	UNITS	CA-81 FDA
Vicat Softening Temperature	ASTM D1525	°F	225
Heat Deflection Temperature Under Load (264 psi)	ASTM D648	°F	208
Melt Flow Rate	ASTM D1238	g/10 min	2.2
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-81 FDA
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-81 FDA
Specific Gravity	ASTM D792	-	1.19
Flammability	UL 94	-	HB
Relative Thermal Index	UL 746 ABC	°C	90, f1

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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