



POM

Polyoxymethylene

Properties



Properties	Standard	Test Method	Unit	Test Data
Physical Properties				
Specific Gravity	ISO 1183	/	lb/in ³	0.0509
Water Absorption	ISO 62	73.4°F /50%RH, equilibrium	%	0.2
Water Absorption	ISO 62	73.4°F , water saturated	%	0.85
Mechanical Properties				
Tensile Strength at Break	ISO 527	Yield 0.394 in/min	KPSI	8.99
Strain at Break	ISO 527	Break 0.394 in/min	%	35
Tensile Modulus	ISO 527	/	KPSI	420.6
Flexural Strength	ISO 178	0.079 in/min	KPSI	13.05
Flexural Modulus	ISO 178	0.079 in/min	KPSI	340.8
Izod Notched Impact Strength	ISO 180	1eA/73.4°F	ft-lb/in	6.91
Simply Supported Beam Notched Impact Strength	ISO 179	1eA/73.4°F	ft-lb/in	3.10
Rockwell Hardness	ISO 2039	73.4°F	/	M84
Shore Hardness	ISO 868	73.4°F	Shore D	82±2
Thermal Performance				
Melting Point	/	/	°F	329
Maximum Service Temperature	Short-term	/	°F	284
Maximum Service Temperature	5000 hrs / 20000 hrs	/	°F	230/203
Minimum Allowable Temperature	/	/	°F	-40
Coefficient of Thermal Expansion	ISO 11359	73.4°F to 212°F , average	in/(in·°F)	61.1*10 ⁻⁶
Coefficient of Thermal Expansion	ISO 11359	73.4°F to 302°F , average	in/(in·°F)	69.4*10 ⁻⁶
Temperature of Deflection under Load	ISO 75	261 psi	°F	221
Vicat Softening Temperature	ISO 306	VST/B/50	°F	302
Glass Transition Temperature	ISO 3146	/	°F	/
Electrical Performance				
Dielectric Constant	IEC 60250	1mHZ/73.4°F /50%RH	/	3.8
Dielectric Dissipation Factor	IEC 60250	1mHZ/73.4°F /50%RH	/	0.005
Dielectric Strength	IEC 60243	73.4°F /50%RH	V/mil	508
Sheet Resistivity	IEC 600093	73.4°F /50%RH	Ω	≥10 ¹³
Volume Resistivity	IEC 600093	73.4°F /50%RH	Ω-in	≥3.94×10 ¹²
Flammability	UL 94	0.118 in	/	HB