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INTEGRA™ POM-P9

Acetal (POM) Copolymer, 9 melt

Physical	Test Method	Value	Units
Specific Gravity	ASTM D792	1.41	-
Melt Flow Rate (220°C/10 kg)	ASTM D1238	9.0	g/10 min
Water Absorption (73°F, 24 hr)	ISO 62	0.50	%
Mold Shrinkage, Across Flow	ISO 294-4	2	%
Mold Shrinkage, Flow	ISO 294-4	2	%
Mechanical	Test Method	Value	Units
Tensile Modulus	ISO 527-2	392,000	psi
Tensile Stress	ISO 527-2	8,990	psi
Nominal Tensile Strain at Break	ISO 527-2	35	%
Flexural Modulus	ISO 178	363,000	psi
Flexural Stress	ISO 178	12,600	psi
Charpy Notched Impact Strength (73°F)	ISO 179/1eA	2.9	ft-lb/in ²
Rockwell Hardness (M-Scale)	ISO 2039-2	80	M-Scale
Thermal	Test Method	Value	Units
Heat Deflection Temperature, 264 psi	ISO 75-2/A	203	°F
CLTE - Flow (73 to 131°F)	Internal	6.70E-05	in/in/°F
CLTE - Flow (73 to 131°F)	Internal	6.70E-05	in/in/°F
Electrical	Test Method	Value	Units
Surface Resistivity	IEC 60093	1.00E+16	ohms
Volume Resistivity	IEC 60093	1.00E+14	ohms·cm
Electric Strength (0.118 in)	IEC 60243-1	480	V/mil
Processing Parameters		Value	Units
Drying Temperature		176 - 194	°F
Drying Time		3 - 4	hrs
Processing (Melt) Temperature		374 - 410	°F
Mold Temperature		140 - 176	°F
Injection Pressure		7250 - 14500	psi
Screw Speed		100 - 150	rpm
Injection Velocity		12 - 118	in/min

CM1116

The test values reported are typical and should be considered averages. However, due to varying processing methods and equipment conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability. Samples of our products are available for inspection and testing and each buyer is responsible for conducting its own tests to determine the product's fitness for its intended use. PolySource, LLC in no event, will be held liable for any loss or damage that may arise as a result of the use or application of the product or information provided.