

HiFill® POM HO IM3

Acetal (POM) Homopolymer
Techmer Engineered Solutions

Message:

HiFill® POM HO IM3 is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America.
Characteristics include:
Homopolymer
Impact Modified

General Information			
Additive	Impact Modifier		
Features	Homopolymer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Unnotched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	76.7	°C	
CLTE - Flow	1.1E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Additional Information	Nominal Value		

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