

Generic Acetal (POM) Copolymer - Mineral

Acetal (POM) Copolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Mineral filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.44 - 1.60	g/cm ³	ASTM D792
23°C	1.48 - 1.64	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	1.5 - 1.9	%	ASTM D955
23°C	1.2 - 1.9	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	79 - 96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000 - 8800	MPa	ISO 527-2
Tensile Strength (Yield, 23°C)	44.1 - 85.0	MPa	ASTM D638
Tensile Strain (Yield, 23°C)	3.5 - 8.0	%	ISO 527-2
Flexural Modulus			
23°C	2800 - 7900	MPa	ASTM D790
23°C	2700 - 8500	MPa	ISO 178
Flexural Strength			
23°C	68.9 - 188	MPa	ASTM D790
23°C	72.0 - 150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.4 - 4.0	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	40 - 54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	160 - 163	°C	ASTM D648
1.8 MPa, not annealed	92.2 - 145	°C	ASTM D648
1.8 MPa, not annealed	109 - 146	°C	ISO 75-2/A
Melting Temperature			
--	166	°C	
--	165 - 167	°C	ISO 11357-3
CLTE - Flow	6.0E-5 - 8.2E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.8E+15 - 1.0E+16	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	73.8 - 121	°C	
Drying Time	3.0 - 3.1	hr	
Rear Temperature	175 - 205	°C	
Middle Temperature	185 - 205	°C	
Front Temperature	185 - 210	°C	
Nozzle Temperature	188 - 210	°C	
Processing (Melt) Temp	190 - 201	°C	
Mold Temperature	70.0 - 100	°C	
Injection Pressure	73.5 - 93.8	MPa	
Back Pressure	0.250 - 3.43	MPa	
Injection instructions			

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