

Electrafil® POM CO 13013 BK

Acetal (POM) Copolymer

Techmer Engineered Solutions

Message:

Electrafil® POM CO 13013 BK is a polyoxymethylene (POM) copolymer product, which contains filler. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Conductivity

General Information			
Filler / Reinforcement	Filler		
Features	Conductivity		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	60.7	MPa	ASTM D638
--	62.1	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	99.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
Melting Temperature	165	°C	ASTM D785
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 - 1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+2 - 1.0E+5	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Additional Information	Nominal Value		
TPCI #	9962114		
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	177 - 188	°C	
Middle Temperature	188 - 199	°C	
Front Temperature	182 - 193	°C	
Nozzle Temperature	177 - 188	°C	
Processing (Melt) Temp	188 - 204	°C	
Mold Temperature	76.7 - 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			

Screw Speed: Medium Recommendations for Molding and Tool Conditions: Well vented Moisture Content, as received: Product is packaged at 0.2% or less. Drying not normally required. Dry at 180°F for 1 to 2 hours if necessary.

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