

**Electrafil® POM CO 13013 BK**

Techmer Polymer Modifiers - Acetal (POM) Copolymer

## General Information

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Filler</li> </ul>
Features	<ul style="list-style-type: none"> <li>Conductive</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Colors Available</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.44		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	9000	psi	ASTM D638
Tensile Strength (Yield)	8800	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	14400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
Melting Temperature	329	°F	ASTM D785
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
TPCI #	9962114		

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	350 to 370	°F
Middle Temperature	370 to 390	°F
Front Temperature	360 to 380	°F
Nozzle Temperature	350 to 370	°F
Processing (Melt) Temp	370 to 400	°F



Mold Temperature	170 to 200 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi

#### Injection Notes

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.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

