Electrafil® PP-61/EC

Techmer Polymer Modifiers - *Polypropylene Copolymer*

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Carbon Black		
Features	• Antistatic	• Copolymer	• Electrically Conductive
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.00		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.018	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (73°F)	3300	psi	ASTM D638
Tensile Elongation (Break, 73°F)	15	%	ASTM D638
Flexural Modulus (73°F)	145000	psi	ASTM D790
Flexural Strength (73°F)	4500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	8.0	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	120	°F	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	5.5E+3	ohms	ASTM D257

Additional Information

Surface Resistivity, ASTM D4496: 1E3-1E4 ohms

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150	°F
Drying Time	2.0	hr
Rear Temperature	420 to 440	°F
Middle Temperature	440 to 460	°F
Front Temperature	430 to 450	°F
Nozzle Temperature	430 to 450	°F
Processing (Melt) Temp	430 to 450	°F
Mold Temperature	80 to 150	°F
Injection Rate	Moderate	
Back Pressure	50.0	psi

Injection Notes

Screw Speed: Medium
Recommendations for Molding and Tool Conditions: Well vented mold
Mold Temperature will have a substantial effect on surface resistivity of a molded part
Moisture Content, as received: Product is packaged at 0.2% or less.