Electrafil® PC-50/EC/VO

Polycarbonate

Techmer Engineered Solutions

Message:

Electrafil® PC-50/EC/VO is a polycarbonate (PC) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Electrafil® The application fields of PC-50/EC/VO include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.

Features include:

flame retardant/rated flame

ROHS certification

Flame Retardant

Conductivity

carbon black

General Information					
Additive	Carbon black				
	Flame retardancy				
Features	Conductivity				
	Antistatic property				
	Flame retardancy				
Uses	Packaging				
	Bushing				
	Conveyor accessories				
	Automotive Electronics				
	Business equipment				
RoHS Compliance	RoHS compliance				
Appearance	Natural color				
Forms	Particle				
Processing Method	Injection molding Nominal Value	Unit	Test Method		
Physical Country					
Specific Gravity	1.31	g/cm³	ASTM D792		
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955		
Water Absorption (24 hr)	0.15	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength (23°C)	55.8	MPa	ASTM D638		
Flexural Modulus (23°C)	2760	MPa	ASTM D790		
Flexural Strength (23°C)	84.1	МРа	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 (1	.8		
MPa, Unannealed)	127	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Additional Information			
Surface Resistivity, ASTM D4496: 1E3-7	1E6 ohms		
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	288 - 304	°C	
Middle Temperature	293 - 316	°C	
Front Temperature	293 - 327	°C	
Nozzle Temperature	293 - 321	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 121	°C	
Injection Rate	Moderate		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			

Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less.

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