

DynaStat® 177

Compounded Polypropylene

Polymer Dynamix

Message:

Antistatic Polypropylene Compound

Features:

Permanently Antistatic

Good Dimensional Stability

Excellent Processability

Applications:

Packaging

Industrial

Electrical/Electronic Applications

General Information			
Additive	Antistatic property		
Features	Good dimensional stability		
	Antistatic property		
	Workability, good		
Uses	Packaging		
	Electrical/Electronic Applications		
	Industrial application		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10 - 1.15	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.6	MPa	ASTM D638
Fracture	62.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	24	%	ASTM D638
Fracture	> 100	%	ASTM D638
Flexural Modulus	517	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	No Break		ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 - 1.0E+8	ohms	ASTM D257
Volume Resistivity	5.0E+6 - 8.0E+8	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	71.1 - 79.4	°C
Drying Time	2.0	hr
Rear Temperature	191 - 199	°C
Middle Temperature	196 - 204	°C
Front Temperature	199 - 210	°C
Nozzle Temperature	202 - 213	°C
Processing (Melt) Temp	210 - 216	°C
Mold Temperature	26.7 - 60.0	°C
Injection Pressure	34.5 - 55.2	MPa
Injection Rate	Moderate	
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Clamp Tonnage	2.8 - 5.5	kN/cm ²
Extrusion	Nominal Value	Unit
Drying Temperature	71.1 - 399	°C
Drying Time	2.0	hr
Cylinder Zone 1 Temp.	188 - 196	°C
Cylinder Zone 3 Temp.	193 - 202	°C
Cylinder Zone 5 Temp.	199 - 210	°C
Melt Temperature	204 - 216	°C
Die Temperature	199 - 216	°C
Extrusion instructions		

Screw Speed: 25 to 100 Rpm

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