

DynaStat® 1857

Acetal (POM) Copolymer

Polymer Dynamix

Message:

Static Dissipative Acetal Compound

Features:

Carbon Free Static Dissipative Performance

Good Dimensional Stability

Excellent Processability

Applications:

Industrial

Electrical/Electronic Applications

Automotive

Packaging

General Information			
Additive	Antistatic property		
Features	Good dimensional stability		
	Antistatic property		
	Workability, good		
Uses	Packaging		
	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	43.4	MPa	ASTM D638
Fracture	34.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	17	%	ASTM D638
Fracture	> 100	%	ASTM D638
Flexural Modulus	1480	MPa	ASTM D790
Flexural Strength	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	292	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.0E+9	ohms	ASTM D257
Static Decay		sec	NFPA 99
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 87.8	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	191 - 199	°C	
Middle Temperature	196 - 202	°C	
Front Temperature	199 - 204	°C	
Nozzle Temperature	202 - 207	°C	
Processing (Melt) Temp	204 - 210	°C	
Mold Temperature	37.8 - 82.2	°C	
Injection Pressure	68.9 - 138	MPa	
Injection Rate	Moderate		
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Clamp Tonnage	4.1 - 6.9	kN/cm ²	
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2 - 87.8	°C	
Drying Time	3.0 - 5.0	hr	
Cylinder Zone 1 Temp.	182 - 193	°C	
Cylinder Zone 3 Temp.	188 - 199	°C	
Cylinder Zone 5 Temp.	193 - 204	°C	
Melt Temperature	199 - 210	°C	
Die Temperature	193 - 204	°C	
Extrusion instructions			
Screw Speed: 25 to 100 RPM			

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