

DynaStat® 457

Polyethylene

Polymer Dynamix

Message:

Antistatic Polyethylene 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	0.940 - 0.960	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	20.7	MPa	ASTM D638
Fracture	17.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	24	%	ASTM D638
Fracture	> 50	%	ASTM D638
Flexural Modulus	703	MPa	ASTM D790
Flexural Strength	24.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 - 1.0E+8	ohms	ASTM D257
Volume Resistivity	1.0E+6 - 1.0E+8	ohms · cm	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	71.1 - 79.4	°C
Drying Time	2.0	hr
Rear Temperature	188 - 196	°C
Middle Temperature	193 - 202	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

