

## Evonik CYRO Vu-Stat™ C37 Static Dissipative Acrylic Multipolymer Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

### Material Notes:

Vu-Stat C-37 compound is a transparent, electro-static dissipative acrylic multipolymer compound with outstanding ESD properties and an excellent balance of mechanical, thermal and flow properties. Developed specifically for electronic parts that are sensitive to static discharge, Vu-Stat C-37 compound retains permanent static dissipative properties even after several washings. This product can be processed in all types of injection molding presses. Information provided by Cyro Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-CYRO-Vu-Stat-C37-Static-Dissipative-Acrylic-Multipolymer-Compound.php](http://www.lookpolymers.com/polymer_Evonik-CYRO-Vu-Stat-C37-Static-Dissipative-Acrylic-Multipolymer-Compound.php)

Physical Properties	Metric	English	Comments
Melt Flow	7.9 g/10 min @Load 5.00 kg, Temperature 230 °C	7.9 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	44	44	ASTM D785
Tensile Strength, Yield	33.64 MPa	4879 psi	ASTM D638
Elongation at Break	19 %	19 %	ASTM D638
Elongation at Yield	4.7 %	4.7 %	ASTM D638
Tensile Modulus	1.53 GPa	222 ksi	ASTM D638
Izod Impact, Notched	0.747 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.40 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	ASTM D256
	0.801 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D256
	0.801 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
	0.801 J/cm @Thickness 6.35 mm, Temperature 0.000 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 32.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	85.0 °C	185 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	10.2 %	10.2 %	ASTM D1003
Gloss	113 %	113 %	At 60°; ASTM D1003
Transmission, Visible	77 %	77 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.90e+10 ohm-cm	8.90e+10 ohm-cm	12% RH; ASTM D257-78
	1.80e+11 ohm-cm	1.80e+11 ohm-cm	After 24 hours Cold Water Showering; ASTM D257-78
Surface Resistance	2.60e+9 ohm	2.60e+9 ohm	12% RH; ASTM EOS/ESD 511.11
	2.70e+9 ohm	2.70e+9 ohm	After 24 hours Cold Water Showering; ASTM FTM 101C
Static Decay	0.020 sec	0.020 sec	After 24 hours Cold Water Showering; ASTM EOS/ESD 511.11
	0.030 sec	0.030 sec	At 23°C, 12% RH; ASTM FTM 101C

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 246 °C	400 - 475 °F	
Mold Temperature	32.2 - 60.0 °C	90.0 - 140 °F	
Drying Temperature	82.2 °C	180 °F	3-4hrs
Injection Pressure	68.9 - 82.7 MPa	10000 - 12000 psi	Hydraulic
Back Pressure	<= 0.689 MPa	<= 100 psi	
Screw Speed	20 - 70 rpm	20 - 70 rpm	3.5:1 Compression

## Contact Songhan Plastic Technology Co.,Ltd.

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