

Shinil Chemical SHINCON PMMA Electro Conductive Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

SHINCON is the product line of SHINIL's electrically conductive compound which is able to dissipate the electrostatic charge (ESD) effectively. Shinil has developed SHINCON products using Shinil's patented conductive filler dispersion technology with variety of engineering polymers and their alloys to impart permanent static dissipative to electrically conductive property to thermoplastics. SHINCON contains multiwall carbon nanotube (MWCNT), carbon black (CB), and carbon fiber (CF) as a conductive filler. SHINCON are used in injection molding, film or sheet extrusion for the applications where the desired level of conductivity and unique mechanical property are important. A wide range of the surface resistivity is obtained by SHINCON formulations for the parts and devices depending upon customer needs and applications.

Feature and Benefits
 Permanent electro conductivity
 Maintain the physical properties of base resin
 No particulates (CNT product)
 Lighter weight
 Recyclability
 Easy processing
 Improved surface
 Cost effective

Grade/Application: Pelicle box
 Information Provided by Shinil Chemical Industry Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shinil-Chemical-SHINCON-PMMA-Electro-Conductive-Polymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|----------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|----------|
| Tensile Strength, Ultimate | 29.4 MPa | 4270 psi | |
| Flexural Strength | 44.145 MPa | 6402.7 psi | |
| Flexural Modulus | 1.27 GPa | 185 ksi | |
| Izod Impact, Notched | 0.588 J/cm | 1.10 ft-lb/in | |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 Å°C | 149 Å°F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Volume Resistivity | 2.00e+10 ohm-cm | 2.00e+10 ohm-cm | |

| Processing Properties | Metric | English | Comments |
|------------------------|---------|---------|----------|
| Processing Temperature | 230 Å°C | 446 Å°F | |

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