

## Kostat ICP-STAT ICD-1001 PET Sheet

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

KOSTATs ICP-STAT is a thermoplastic sheet coated with an inherently conductive polymer (ICP). ICP-STAT has distinctive advantages in ESD and cleanliness performances compared to other materials based on Hygroscopic Antistats and Conductive Fillers. This product exhibits superior transparency and clarity. Special Features: Superior Permanent Static Dissipation Humidity Insensitivity Excellent Wear resistance Low Particle Generation Superior Transparency and Clarity Low Ionic Contamination Excellent Chemical Resistance with Environmentally Friendly Materials Applications: Semiconductors Packaging LCD Components Packaging HDD Components Packaging Electrical & Electronics Packaging Medical Devices Packaging Clean Room Accessories

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kostat-ICP-STAT-ICD-1001-PET-Sheet.php](http://www.lookpolymers.com/polymer_Kostat-ICP-STAT-ICD-1001-PET-Sheet.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.34 g/cc | 1.34 g/cc | ASTM D792 |

| Mechanical Properties   | Metric     | English       | Comments  |
|-------------------------|------------|---------------|-----------|
| Tensile Strength, Yield | 49.0 MPa   | 7100 psi      | ASTM D638 |
| Flexural Strength       | 68.6 MPa   | 9950 psi      | ASTM D790 |
| Flexural Modulus        | 1.97 GPa   | 285 ksi       | ASTM D790 |
| Izod Impact, Notched    | 0.961 J/cm | 1.80 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 158 Â°C | 316 Â°F | ASTM D648 |

| Optical Properties    | Metric  | English | Comments   |
|-----------------------|---------|---------|------------|
| Transmission, Visible | >= 85 % | >= 85 % | ASTM D1003 |

| Electrical Properties          | Metric              | English             | Comments                         |
|--------------------------------|---------------------|---------------------|----------------------------------|
| Surface Resistivity per Square | 1e+05 - 1.00e+6 ohm | 1e+05 - 1.00e+6 ohm | ASTM D257                        |
|                                | 1.00e+6 ohm         | 1.00e+6 ohm         | after 100% elongation; ASTM D257 |
|                                | 1.00e+7 ohm         | 1.00e+7 ohm         | after 200% elongation; ASTM D257 |
|                                | 1.00e+9 ohm         | 1.00e+9 ohm         | after 250% elongation; ASTM D257 |

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