



**INTEGRATED PACKAGING FILMS INC.**  
Serious Protection for Sensitive Products

## PRODUCT DATA INFORMATION SHEET

### IPF-3505 (PETG)

**IPF-3505** is a crystal clear thermoformable ESD, sheet. This PETG based polymer is designed for use in forming trays, lids and clamshell for the protection of static sensitive electronic components. **IPF-3505** provides a cost effective alternative to more expensive substrates. This non-humidity dependent material is available in thicknesses of 10 to 80 mils, and offers an extended shelf life. IPF 3505 meets or exceeds the Belcore GR 1420 specification for Surface Resistivity and Static Decay.

Product Properties	Test Method	Units	Typical Value
Surface Resistivity 12% RH	EOS/ESD S.11.11	ohms/sq.	10 <sup>9</sup>
Static Decay ±(5KV to 0.05KV)	EIA- 541	sec.	0.1
12 Day Oven Aging@ 160°F Surface resistivity	ASTM D-257	ohms/sq.	10 <sup>10</sup>
Static decay ± (5KV to 0.05KV)		sec.	< 2

Property	Test Method	Typical Value
Specific Gravity	ASTM D 1505	1.34
Tensile Strength (@yield)	ASTM D 638	8500 psi
Gauge Range	Micrometer	15 to 45 mils
Ultimate Elongation	ASTM D 638	350%
Haze	ASTM D1003-13	3.8% max.
Chemical Resistance	Standard	Excellent
Dart Impact	ASTM 1709 A	500 G @ 73 F
High Speed Puncture	ASTM D3763	1.35 Joules
Average energy at peak load		
Modulus of Elasticity	ASTM D638	320,000 PSI

Electrical properties of material are for informed sheet only. The above information is intended as reference only and should not be construed as a warranty or guarantee of any of the properties listed. The product discussed is sold without warranty, either expressed or implied and the buyer assumes all responsibility for loss or damage arising from the handling and use of our product with direction or not. Any statement of recommended use should be considered as a general statement.

Revision 2, 03/13/15