



Stat-Tech™ ST7400-8009 ESD BK001

High Impact Polystyrene

Key Characteristics

Product Description

Carbon black Reinforced Polystyrene Compound

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Carbon Powder
Appearance	• Black
Processing Method	• Film Extrusion • Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.09	1.09	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.50 to 1.5 g/10 min	0.50 to 1.5 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	5080 psi	35.0 MPa	ASTM D638
Tensile Elongation ² (Break)	> 10 %	> 10 %	ASTM D638
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	1.5 ft·lb/in	80 J/m	ASTM D256
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity ³	1.0E+5 to 1.0E+8 ohms	1.0E+5 to 1.0E+8 ohms	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	3.0 to 5.0 hr	3.0 to 5.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Injection Notes

Injection Pressure: MED-HIGH

Hold Pressure: MED-HIGH

Screw Speed: MODERATE

Back Pressure: LOW

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ Extruded films