



Edgetek™ ET7400-8001 HG NC001

High Impact Polystyrene

Key Characteristics

Product Description

High gloss, easy flow HIPS for injection molding application

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04	ASTM D792
Molding Shrinkage (0.118 in (3.00 mm))	0.40 to 0.70 %	0.40 to 0.70 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	4640 psi	32.0 MPa	ASTM D638
Tensile Elongation (Break)	55 %	55 %	ASTM D638
Flexural Modulus ³	290000 psi	2000 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm)	1.9 ft-lb/in	100 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	180 °F	82.0 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Rear Temperature	320 to 356 °F	160 to 180 °C
Middle Temperature	410 to 464 °F	210 to 240 °C
Front Temperature	410 to 464 °F	210 to 240 °C
Mold Temperature	140 to 176 °F	60 to 80 °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 0.051 in/min (1.3 mm/min)