



Edgetek™ ET3200-5010 NHFR

Polycarbonate

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Flame Retardant	• Good Dimensional Stability	• Halogen Free
Uses	• Electrical/Electronic Applications	• General Purpose	• Housings
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 to 15 g/10 min	10 to 15 g/10 min	ISO 1133
Molding Shrinkage ²	0.30 to 0.70 %	0.30 to 0.70 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	435000 psi	3000 MPa	
Tensile Stress			ISO 527-2
Yield, 73°F (23°C), 0.157 in (4.00 mm)	9720 psi	67.0 MPa	
Tensile Strain (Yield, 73°F (23°C))	5.5 %	5.5 %	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	> 50 %	> 50 %	ISO 527-2
Flexural Modulus (73°F (23°C))	341000 psi	2350 MPa	ISO 178
Flexural Stress (73°F (23°C))	10900 psi	75.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	4.8 ft·lb/in ²	10 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	47 ft·lb/in ²	99 kJ/m ²	
73°F (23°C)	No Break	No Break	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	250 V	250 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.6 mm)	V-0	V-0	
0.12 in (3.0 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	212 to 248 °F	100 to 120 °C