Edgetek™ ET5200-5014 NC FD

Polypropylene Impact Copolymer

Key Characteristics

Product Description

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and customer-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications, flame-retardant products as well as customer-specific compounds. These compounds are based on selected engineering thermoplastic resins containing reinforcing fillers and/or special additives.

General		
Material Status	• Commercial: Active	
Regional Availability	• Europe	
Features	• Good Flow	• Good Impact Resistance
Uses	• Consumer Applications	• Household Goods
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2] (73°F (23°C))	1.00 g/cm³	1.00 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	19 g/10 min	19 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	1.34 in³/10min	22.0 cm³/10min	ISO 1133
Molding Shrinkage - Flow [3]			ASTM D955
73°F (23°C), 0.157 in (4.00 mm)	0.012 to 0.016 in/in	1.2 to 1.6 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [4]			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	276000 psi	1900 MPa	
Tensile Stress [5]			ISO 527
Yield, 73°F (23°C), 0.157 in (4.00 mm)	3770 psi	26.0 MPa	
Tensile Strain [5]			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 50 %	> 50 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	> 8.1 ft·lb/in²	> 17 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	48 ft·lb/in²	100 kJ/m²	

Additional Information

Determination of algae resistance: very good resistance against algae with growth rate 0
Determination method: SAN BIO 33/99

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr

Notes

[1] Typical values are not to be construed as specifications.

[2] ±0,03

[3] Bergmann method

[4] 0.039 in/min (1 mm/min)

[5] 0.20 in/min (5 mm/min)

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