



Edgetek™ COC BLEND-15GF Natural

Cyclic Olefin Copolymer

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.12	1.12	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	796000 psi	5490 MPa	ASTM D638
Tensile Strength ³ (Break)	11000 psi	75.8 MPa	ASTM D638
Tensile Elongation ³ (Break)	1.5 %	1.5 %	ASTM D638
Flexural Modulus ⁴	750000 psi	5170 MPa	ASTM D790
Flexural Strength ⁴	17500 psi	121 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	0.80 ft-lb/in	43 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	219 °F	104 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	208 °F	98.0 °C	ASTM D648

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.1 mm/min)

³ Type I, 0.20 in/min (5.1 mm/min)

⁴ 0.050 in/min (1.3 mm/min)

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