Edgetek™ AS-10GF/000 NATURAL

Acrylonitrile Butadiene Styrene

Key Characteristics

Product Description			
The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-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 and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Features	• Amorphous	• Good Moldability	• Good Toughness
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications • Structural Parts
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.11	1.11	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3 in/in	0.20 to 0.40 %	ASTM D955
Molding Shrinkage - Across Flow	7.5E-3 to 0.010 in/in	0.75 to 1.0 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	598000 psi	4120 MPa	ASTM D638
Tensile Strength [2] (Break)	8600 psi	59.3 MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Flexural Modulus [3]	550000 psi	3790 MPa	ASTM D790
Flexural Strength [3]	13600 psi	93.8 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact	1.4 ft·lb/in	75 J/m	ASTM D256
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	212 °F	100 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	196 °F	91.0 °C	ASTM D648

Notes

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

[2] 0.20 in/min (5.1 mm/min)

[3] 0.050 in/min (1.3 mm/min)

CONTACT INFORMATION

Americas

Mexico - Toluca
+52 722 2790200

United States - Avon Lake
+1 440 930 1000

Asia

China - Shanghai
+86 21 5080 1188

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Tianjin
+86 22 2532 8818

India - Pune

Japan - Tokyo
+81-3-6261-3980

Singapore - Singapore
+65 6861 9325

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Turkey - Esenyurt - Istanbul – Turkey
+90 212 549 2256

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35