

Edgetek™ ET9700-5012 NHFR Natural

Polyphthalamide

PolyOne Corporation

Message:

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 reflectivity, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on selected engineering thermoplastic resins which are compounded with reinforcing additives such as glass fiber and mineral fillers.

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Halogen Free		
	High Heat Resistance		
Uses	Consumer Applications		
	Electrical/Electronic Applications		
	General Purpose		
	Industrial Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage	0.10 to 0.80	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 2.0	%	ISO 527-2
Flexural Modulus (23°C)	7600	MPa	ISO 178
Flexural Stress (23°C)	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded, Complete Break)	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	> 30	kJ/m ²	ISO 179
Flammability	Nominal Value	Test Method	
Flammability Classification (3.00 mm)	V-0	IEC 60695-11-10, -20	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	290 to 330	°C	

Mold Temperature	130 to 160	°C
Screw Speed	50 to 90	rpm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

