

# Edgetek™ NN-40CF/000 - "OBSOLETE"

Polyamide 66

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-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 Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	General Purpose		
Uses	Automotive Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	20700	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	262	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength	379	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	160	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	260	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	288 to 299	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

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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

