

NYCOA Polyamide ASN 27 400 SR KNF

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA ASN 27/400 SR KNF is a 40% glass fiber reinforced, heat stabilized Nylon 6 resin used for injection molding. This grade was specifically engineered for applications requiring high stiffness, tensile strength, and toughness.

NYCOA ASN 27/400 SR KNF is available in light stable and flame retardant grades as well as custom colors.

Typical applications include motor components, weed trimmer head, engine parts, automotive under the hood parts and housings, gears, electrical insulation and pedals.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	heat stabilizer		
Features	Rigidity, high		
	High tensile strength		
	Thermal Stability		
	Good toughness		
Uses	Lawn and Garden Equipment		
	Electrical components		
	Parts under the hood of a car		
	Application in Automobile Field		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10	%	ASTM D955
Transverse flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11500	MPa	ASTM D638
Tensile Strength ²	220	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.0	%	ASTM D638
Flexural Modulus ⁴	10800	MPa	ASTM D790
Flexural Strength ⁵	274	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (6.35 mm)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	211	°C	ASTM D648
1.8 MPa, not annealed	205	°C	ASTM D648
Melting Temperature	221	°C	DSC

Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

NOTE

1. 51 mm/min
2. 51 mm/min
3. 51 mm/min
4. 51 mm/min
5. 51 mm/min

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