NYCOA Polyamide ASN 27 440 KNF

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA ASN 27/440 KNF is a 44% glass fiber reinforced, heat stabilized Nylon 6 resin used for injection molding. This resin was engineered for applications requiring high stiffness, and toughness.
NYCOA ASN 27/440 KNF is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.
Typical applications include automotive pedals, weed trimmer heads, and speaker brackets.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 44% filler by weight		
Additive	heat stabilizer		
Features	Rigidity, high Good chemical resistance Hydrocarbon resistance Oil resistance Grease resistance Thermal Stability Good toughness		
Uses	Lawn and Garden Equipment Application in Automobile Field		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.50	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10	%	ASTM D955
Transverse flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	11900	MPa	ASTM D638
Tensile Strength [2]	240	MPa	ASTM D638
Tensile Elongation [3] (Break)	2.0	%	ASTM D638
Flexural Modulus [4]	13100	MPa	ASTM D790
Flexural Strength [5]	280	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	220	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ASTM D648
Melting Temperature	221	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	232 - 271	°C	
Middle Temperature	243 - 282	°C	
Front Temperature	254 - 291	°C	
Nozzle Temperature	252 - 291	°C	
Processing (Melt) Temp	254 - 291	°C	
Mold Temperature	76.7 - 87.8	°C	
Injection Rate	Fast		
Back Pressure	0.138 - 0.517	MPa	
Cushion	1.59 - 6.35	mm	
Screw L/D Ratio	16.0:1.0		
Screw Compression Ratio	3.0:1.0		
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		
5.	51 mm/min		

Recommended distributors for this material

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