NYCOA Polyamide 4112 FR

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 4112 FR is a high viscosity resin particularly suitable for extrusion processing, thermoforming and blow molding. Its melt viscosity and strength provide ease of processing for tubing, profile, and blow molded articles.
This material is specifically engineered for applications requiring high stiffness, toughness, dimensional stability, and a greater service life than standard grades of glass reinforced Nylon 6.
NYCOA 4112 FR is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.
Suggested applications include thermoformed under the hood automotive components and blow molded chemical storage reservoirs.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 12% filler by weight
Features	Good dimensional stability Rigidity, high Good melt strength Good chemical resistance Hydrocarbon resistance Oil resistance Grease resistance Good toughness Viscosity, High Flame retardancy
Uses	Blow molding applications Pipe fittings Parts under the hood of a car Container Profile
Appearance	Translucent Available colors
Forms	Particle
Processing Method	Blow molding Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955

Flow	0.40	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	75.2	MPa	ASTM D638
Tensile Elongation [2] (Break)	15	%	ASTM D638
Flexural Modulus [3]	3030	MPa	ASTM D790
Flexural Strength [4]	86.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	130	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	218	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

Recommended distributors for this material

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