NYCOA Polyamide 512 HS

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 512 HS is a medium viscosity injection molding and extrusion grade Nylon 6 Resin. It is nucleated for controlled crystallinity, and heat stabilized for a higher continuous use temperature.
NYCOA 512 HS is suitable for injection molding applications such as components for toys, hardware, and the automotive industry. In the extrusion industry, typical applications include tubing.

General Information	
Additive	Nucleating agent heat stabilizer
Features	Nucleated Thermal Stability Medium viscosity
Uses	Pipe fittings Application in Automobile Field Toys
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.2	%	ASTM D955
Transverse flow	1.4	%	ASTM D955
Water Absorption (24 hr)	1.7	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	90.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	32	%	ASTM D638
Flexural Modulus [3]	2770	MPa	ASTM D790
Flexural Strength [4]	80.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	43	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	202	°C	ASTM D648
1.8 MPa, not annealed	75.0	°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.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	50 mm/min

Recommended distributors for this material

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