

NYCOA Polyamide 471 HS

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 471 HS is a medium viscosity Nylon 6 resin developed specifically for Rotational Molding.
NYCOA 471 HS possesses an excellent combination of strength and toughness, as well as excellent thermal properties and chemical resistance.

General Information			
Features	High strength		
	Good chemical resistance		
	Good toughness		
	Medium viscosity		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	2.6	g/10 min	ASTM D1238
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	80.0	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	2500	MPa	ASTM D790
Flexural Strength ⁴	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	177	°C	ASTM D648
Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638, 2 in/min: 100+%Relative Viscosity, NYCOA method: 3.0 to 3.4 SAVWater Extracable, NYCOA method: 1.5%Melt Mass- Flow Rate (MFR), ASTM D1238, 235°C/1 kg: 2.4 to 2.8 g/10min			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

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