

NYCOA Polyamide 1485 HS

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1485 HS is a heat stabilized Nylon copolymer TPE which offers outstanding toughness, flexibility, and strength. It is particularly suitable for extrusion processing.

The chemical composition of NYCOA 1485 HS delivers improved impact performance at ambient or low temperatures, and increased flexibility to meet higher impact performance. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

The chemistry of the resin promotes good adhesion to olefins and other materials. This product is available with custom additive packages: UV stabilizer, flame retardant and custom colors.

Typical applications include convoluted tubing, complex profiles, and pipe extrusion.

General Information	
Features	Copolymer
	Good strength
	Good flexibility
	Good adhesion
	Low temperature impact resistance
	Good chemical resistance
	Good toughness
Uses	Piping system
	Pipe fittings
	Profile
Forms	Particle
Processing Method	Pipeline extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	3.0	g/10 min	ASTM D1238
Water Absorption (24 hr)	2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	50.0	MPa	ASTM D638
Tensile Elongation ² (Break)	300	%	ASTM D638
Flexural Modulus ³	600	MPa	ASTM D790
Flexural Strength ⁴	22.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	330	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	205	°C	

Additional Information

Water Extractable, NYCOA Method: 4 to 6 %Melt Flow Index, ASTM D1238, 235°C/1kg: 2 to 4 g/10 min

Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	216 - 227	°C
Middle Temperature	221 - 238	°C
Front Temperature	232 - 249	°C
Nozzle Temperature	243 - 260	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	21.1 - 48.9	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.138 - 0.345	MPa
Cushion	1.59 - 6.35	mm
Screw L/D Ratio	18.0:1.0	
Screw Compression Ratio	3.0:1.0	

NOTE

1. 50 mm/min
2. 50 mm/min
3. 50 mm/min
4. 50 mm/min

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