NYCOA Polyamide 2090 HS

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2090 HS is a medium viscosity Nylon copolymer TPE particularly suitable for extrusion applications. This material offers an outstanding balance of toughness, flexibility, and strength, with improved flame retardancy. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

NYCOA 2090 HS provides high melt viscosity and melt strength and hence outstanding processability for tubing, profile, sheet, and monofilament.

This product is available with custom additive packages: UV stabilizer, and custom colors.

General Information					
Features	Copolymer				
	Workability, good				
	Good strength				
	Good flexibility				
	Good chemical resistance				
	Good toughness				
	Medium viscosity				
	Flame retardancy				
Uses	monofilament				
	Pipe fittings				
	Sheet				
	Profile				
Appearance	Available colors				
Forms	Particle				
Processing Method	Extrusion				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.16	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		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ¹	49.6	MPa	ASTM D638		
Tensile Elongation ² (Break)	400	%	ASTM D638		
Flexural Modulus ³	586	MPa	ASTM D790		
Flexural Strength ⁴	23.4	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (6.35 mm)	85	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		

Melting Temperature	204	°C	DSC
Additional Information			
The value listed as Melting Point DSC, v	vas tested in accordance with AST	M D789.	
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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