

Nylene® 2407 HSSP BK

Polymeric Resources Corporation (PRC) - Polyamide 6

General Information

Product Description

- High viscosity nylon copolymer with high impact resistance and superior flexibility.
- Optimized with good melt strength for high line speeds in thin wall sections and very complex profiles.
- One of a family of grades specifically designed for the convoluted tubing industry, but can also be used for other extrusions and some molded parts.
- Available in natural (Nylene 2407 HSSP).

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Copolymer	• Good Heat Resistance	• High Impact Resistance
	• Good Flexibility	• Good Melt Strength	• High Viscosity
Uses	• Automotive Applications	• Power/Other Tools	• Tubing
	• Lawn & Garden Equipment	• Profiles	
Automotive Specifications	• GM GMP.PA6.003		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Extrusion		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR)	1.7	g/10 min	ASTM D1238
Mechanical			
Tensile Modulus	124000	psi	ASTM D638
Tensile Strength	6530	psi	ASTM D638
Flexural Modulus	86300	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	10	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	613	°F	ASTM D648
Peak Melting Temperature	424	°F	ASTM D3418

Processing Information

	Nominal Value	Unit
Extrusion		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Re grind	25	%
Cylinder Zone 1 Temp.	421 to 441	°F
Cylinder Zone 3 Temp.	441 to 460	°F
Cylinder Zone 5 Temp.	450 to 469	°F
Melt Temperature	450 to 469	°F
Die Temperature	450 to 469	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

