

Nylene® PAC990-140U

Polymeric Resources Corporation (PRC) - Polyamide 6/69 Copolymer

General Information

Product Description

- Nylene PAC9-140U is a high viscosity copolymer of nylon 6 and 6,9.
- PAC9-140U has many of the properties desirable in nylon 6 coupled with the advantages of a copolymer, which include lower processing temperatures.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Copolymer • High Viscosity
Uses	• Cable Jacketing • Fishing Applications • Wire & Cable Applications • Coating Applications • Lawn & Garden Equipment • Film • Monofilaments
Appearance	• Black
Forms	• Pellets
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Relative Viscosity ²	140		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6700	psi	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Flexural Modulus	240000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	374 to 383	°F	ASTM D3418
Additional Information	Nominal Value	Unit	Test Method
Methanol Extractables ³	6.0 to 10	%	

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	149	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Regrind	25	%
Cylinder Zone 1 Temp.	450 to 469	°F
Cylinder Zone 3 Temp.	469 to 489	°F
Cylinder Zone 5 Temp.	444 to 475	°F
Melt Temperature	480 to 500	°F
Die Temperature	480 to 500	°F

Notes

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

² MTL-WI-003

³ MTL-WI-004

