Nylene® PAC900-140U

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.
- Effective processing is achieved with extruder and die temperatures in the range of 450 - 525 °F (232°C - 274°C) but may be processed as low as 420 °F (216 °C).
- Nylene PAC900-140U advantages include high elongation, good clarity and flexibility, and lower processing temperatures.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Chemical Resistant • Copolymer • Good Clarity	• Good Flexibility • Good Strength • Good Toughness	• High Elongation • High Viscosity
Uses	• Film		
Forms	• Pellets		
Processing Method	• Extrusion	• Film Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Relative Viscosity [2]	140		ASTM D789
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	6670	psi	ASTM D638
Tensile Elongation (Break)	270	%	ASTM D638
Flexural Modulus	245000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	1.6	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	392	°F	ASTM D3418

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] Formic Acid