Nylene® 764B

Polymeric Resources Corporation (PRC) - *Polyamide 6*

General Information

Product Description

- Nylene 764B is a heat stabilized, high impact modified nylon suitable for both blow-molding and extrusion.
- In addition to heat stabilization to prevent thermal degradation, parts molded from Nylene 764B have excellent impact strength right out of the mold without post conditioning.
- Outstanding features of Nylene 764B include high strength and high cold temperature impact.
- Cylinder temperatures should be in the 435 - 525°F (224 - 274 °C) range.
- Excellent melt strength to support large parisons

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier		
Features	• High Impact Resistance • High Melt Strength	• High Strength • Impact Modified	
Uses	• Blow Molding Applications	• Profiles	• Tubing
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	7540	psi	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Flexural Modulus	270000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F	3.5	ft·lb/in	
73°F [2]	No Break		
Impact Strength			ARM
-40°F [3]	70	ft·lb	
-22°F [3]	90	ft·lb	
-- [2]	150	ft·lb	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	426	°F	ASTM D3418

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Regrind	25	%
Cylinder Zone 1 Temp.	421 to 444	°F
Cylinder Zone 3 Temp.	435 to 466	°F
Cylinder Zone 5 Temp.	444 to 475	°F
Melt Temperature	455 to 489	°F
Die Temperature	444 to 475	°F

Notes

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

[2] R.T.