

Nylene® NX3055I

TECHNICAL DATASHEET

TDS Ref # 929 Reviewed: 5/11/2017

DESCRIPTION

- High crystallinity, extrusion grade nylon 6 resin suitable for both cast and blown film in mono- and co-extrusions.
- Suitable for some profile extrusion such as tubing, shapes, etc.
- Good oxygen and flavor barrier to increase shelf life
- Nylene films can be drawn to provide pockets for many food shapes and does not absorb food odors.
- Offers chemical and heat resistance for hot filling wide range of food and chemicals

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES			
Relative Viscosity	ISO 307	Sulfuric Acid	3.6
	D789	Formic Acid	100
Specific Gravity	D792	n/a	1.13
Water Absorption	D590	n/a	1.9
MECHANICAL PROPERTIES			
Elongation	D638	%	200
Flexural Modulus	D790	psi (MPa)	400,000 [2759]
Notched Izod @ 23°C	D256	ft. lb./ in. (J/m)	0.8 [42.7]
Tensile Strength	D638	psi (MPa)	11,000 [76]
THERMAL PROPERTIES			
Melt Point	D3418	°F (°C)	428 [220]
FILM PROPERTIES			
Elmendorf Tear	D1922	gms./mil.	56
Elongation	D882	%	290
Secant Modulus	D882	psi (MPa)	94,600 [652]
Ultimate Tensile Strength	D882	psi (MPa)	8,650 [60]

NOTES

- **FILM PROPERTIES = FILM CONDITIONED, AND TESTED IN TRANSVERSE DIRECTION.
- Testing conducted on dry-as-molded specimens at 73°F (22.8°C)

PROCESSING CONSIDERATIONS: EXTRUSION HIGH VISCOSITY

CHARACTERISTICS

Resin Type: Nylon 6
 Product Characteristics:
 High RV

EXTRUSION PROCESSING

Film
 Tubing & Profile

FEATURES

- Excellent melt stability
- Excellent melt strength
- Higher viscosity
- Superior Grease Resistance
- Superior Toughness
- Excellent Abrasion Resistance

MARKETS USED

- Packaging Industry
- Food Packaging

APPLICATIONS

- Extrusion Coating for Paper Board
- Film
- Flexible Packaging
- Fresh & Processed Meat Packaging
- Juice Packaging/Milk Cartons
- Plastic Containers
- Protective Liner
- Single Layer/Multi Layer Film
- Stand Up Packaging for Barrier Strength

APPROVALS

- Direct Food Contact: FDA 21 CFR 177.1500

DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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