

Nylene® 826

TECHNICAL DATASHEET

TDS Ref # 161 Reviewed: 7/24/2013

DESCRIPTION

- Nylon 6 based copolymer suitable for both blown and cast film coextrusion
- Lower melting point and is less crystalline than nylon 6
- Excellent toughness, chemical resistance, transparency, and low oxygen permeability
- Films made using Nylene 826 exhibit superior deep draw characteristics
- Because Nylene 826 is polymerized using a continuous process, it has good lot-to-lot consistency.

| PROPERTIES | TEST METHOD | UNIT | VALUE |
|------------------------------|-------------|------------|-------|
| PHYSICAL PROPERTIES | | | |
| Oxygen Permeably | D3985 | See Note#2 | 3.8* |
| Specific Gravity | D792 | n/a | 1.11 |
| MECHANICAL PROPERTIES | | | |
| Break Stress | D638 | MPa | 58 |
| Maximum Strain | D638 | [%] | 340 |
| Maximum Stress | D638 | Mpa | 55 |
| Yield Stress | D638 | MPa | 25 |
| Young's Modulus | D638 | MPa | 335 |
| THERMAL PROPERTIES | | | |
| Melt Point | D3418 | °C | 195 |

NOTES

- Oxygen permeability measured using 1 mil. monofilm.
- cc-mil/100 sq. in.-24 hr.-atm. @ 75 F.
- For comparison, values for nylon 6 monofilm of one mil was Measured at 3.1 cc-mil/100 sq. in.-24 hr.-atm.
- PROCESSING CONDITIONS Nylene 826 can be processed effectively with extruder barrel and die temperatures set to give melt temperatures in the range of 440°F - 500°F.

PROCESSING CONSIDERATIONS: OTHER NONE

Please contact us for processing conditions or technical questions for this product.

CHARACTERISTICS

Resin Type: Nylon 6
Product Characteristics:
Unreinforced, Copolymer

EXTRUSION PROCESSING

Film

FEATURES

- Good shrink
- Excellent elongation
- Low residual monomer

MARKETS USED

- Packaging Industry
- Food Packaging

APPLICATIONS

- Blown Film
- Cast Film (anti-static)
- Deep Draw
- Gel Free

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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