

Eastman Provista NXT Copolymer Resin for Profile Extrusion

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications: Candy packaging, Corner guards, Displays, Fixtures and Point of purchase, Food packaging, Furniture guards, Integrated circuit tubes, Lighting tubes, Plastics for hygiene feminine products, Pricing channels, Teething rails, Tubing.

Key Attributes: Capable of running on PVC lines with minor setup adjustments, Compatible with the PET recycle stream, Good chemical resistance, Good melt strength with ease of handling, Good toughness with design flexibility, High processing speeds, Sparkling clarity with high gloss, Versatile process setup (high or low drawdown ratios, multiple cooling methods).

Product Description: Eastman Provista copolymer NXT is a resin specifically developed for extrusion into profiles where aesthetics like high clarity and gloss, coupled with design flexibility and sustainability drive demand. Compared to commonly used materials, Eastman Provista copolymer NXT can often run on most standard processing equipment at increase speeds. The extremely high melt strength of this resin gives added versatility for a variety of process setups and makes it an excellent choice when extruding profiles into complicated shapes. In addition, its compatibility with the PET recycle stream makes this product an environmentally friendly choice. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®. This product is certified to NSF/ANSI Standard 51 for Food Equipment materials. This product has been CRADLE TO CRADLE CERTIFIED™ Silver. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Provista-NXT-Copolymer-Resin-for-Profile-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	116 %	116 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.208 GPa	320.2 ksi	ASTM D638
Flexural Strength	71.8 MPa	10400 psi	ASTM D790
Flexural Modulus	2.106 GPa	305.5 ksi	ASTM D790
Izod Impact, Notched	0.418 J/cm @Temperature -40.0 °C	0.783 ft-lb/in @Temperature -40.0 °F	ASTM D256

Mechanical Properties	Metric	English	Comments
			ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	33.61 J/cm	62.97 ft-lb/in	ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM D4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	37.0 J	27.3 ft-lb	At Max load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	38.0 J	28.0 ft-lb	At Max load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	68.0 °C	154 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	ASTM D1003
Gloss	151.4 %	151.4 %	at 45°; ASTM D2457
Transmission, Visible	88 %	88 %	Regular; ASTM D1003
	91 %	91 %	Total; ASTM D1003

Descriptive Properties	Value	Comments
Color	-0.2	a*, ASTM D2244
	0.6	b*, ASTM D2244
	95.4	L*, ASTM D2244

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