

Eastman Aspira EN177 Copolyester Resin for Extrusion Blow Molding

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications: Beverage packaging Consumer packaging Food packaging Personal care packaging **Key Attributes:** BPA-free Compatible with high-output manufacturing platforms Excellent clarity High gloss appearance Improved compatibility with PET PCR stream Safe for food contact **Product Description:** Eastman Aspira copolyester EN177 is a resin developed specifically for extrusion blow molded packaging. It combines a unique collection of attributes – clarity, gloss, melt strength, and design freedom – enabling the development of attractive ergonomic packaging. Aspira EN177 runs on most extrusion blow molding platforms, including shuttles, wheels, and reciprocating screws. Its high melt strength enables its use in the manufacturing of large, multi-serve bottles. Aspira brings the value of innovative packaging and eye-catching shelf appeal to multi-serve applications without sacrificing efficiency and environmental responsibility. This product is certified to NSF/ANSI Standard 51 for Food Equipment Materials. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Aspira-EN177-Copolyester-Resin-for-Extrusion-Blow-Molding.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 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	27.0 MPa	3920 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Tensile Modulus	2.18 GPa	316 ksi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.710 J/cm	1.33 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Puncture Energy	38.0 J	28.0 ft-lb	At Max load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	44.0 J	32.5 ft-lb	At Max load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C	142 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.90 %	0.90 %	ASTM D1003
Gloss	151.4 %	151.4 %	at 60°; ASTM D2457
Transmission, Visible	88 %	88 %	Regular; ASTM D1003
	91 %	91 %	Total; ASTM D1003

Descriptive Properties	Value	Comments
Color	-0.3	a*, ASTM D2244
	0.67	b*, ASTM D2244
	95.2	L, ASTM D2244

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China