

## Eastman PROVISTA Copolymer PETG Copolyester

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , PETG Copolyester

### Material Notes:

Color, b\* CIELAB, Illuminant D6500, 10° Observer is 0.61 per ASTM D 2244. Product Description: PROVISTA Copolymer is a resin specifically developed for extrusion into profiles where aesthetics like high clarity and gloss, coupled with design flexibility drive demand. Compared to commonly used materials, PROVISTA copolymer can often run on most standard processing equipment at increased speeds. An extremely high melt strength makes the resin an excellent choice when extruding profiles into complicated shapes. Applications: Candy packaging; Food packaging; Furniture guards; Point of purchase displays; Pricing channels; Teething rails; Tubing Preliminary Data Sheet Comments: Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given. Information provided by Eastman Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-PROVISTA-Copolymer-PETG-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-PROVISTA-Copolymer-PETG-Copolyester.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Ultimate	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	109 %	109 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	72.0 MPa	10400 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.940 J/cm	1.76 ft-lb/in	Testing conducted using 10 standard flex bars with 20 mil notch; 9 complete break and 1 nonbreak.; ASTM D256
	0.520 J/cm @Temperature -40.0 °C	0.974 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648

Vicat Softening Point Thermal Properties	79.0 °C Metric	174 °F English	1 kg load; ASTM D 1525 Comments
<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Haze	0.60 %	0.60 %	ASTM D1003
Gloss	171 %	171 %	at 60°; ASTM D 2457
Transmission, Visible	88 %	88 %	Regular transmittance per ASTM D 1003
	90 %	90 %	Total Transmittance; ASTM D 1003

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