

Eastman Provista MP001 Copolymer

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Provista Copolymer MP001 is a resin specifically developed for extrusion into profiles where aesthetics such as high clarity and gloss, coupled with design flexibility, drive demand. Compared to commonly used materials, Provista copolymer runs 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. In addition to profile extrusion, Provista copolymer is an excellent choice for extrusion of rigid tubing. This product meets the biocompatibility requirements under FDA/ISO 10993 and USP Class 6, Plastics.Applications/UsesMedical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Provista-MP001-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	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 Strength	72.0 MPa	10400 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.520 J/cm @Temperature -40.0 °C	0.974 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.940 J/cm @Temperature 23.0 °C	1.76 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812
Puncture Energy	33.0 J	24.3 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	37.0 J	27.3 ft-lb	Puncture Resistance @Max Load, 0°C; ASTM D3763

Mechanical Properties	41.0 J Metric	30.2 ft-lb English	Puncture Resistance at Max Load; ASTM D1763 Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	

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	79.0 °C	174 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.60 %	0.60 %	ASTM D1003
Gloss	171 %	171 %	at 60°; ASTM D2457
Transmission, Visible	88 %	88 %	Regular Transmittance; ASTM D1003
	90 %	90 %	Total Transmittance; ASTM D1003

Descriptive Properties	Value	Comments
Color, CIE b*	0.61	

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