

Provista™ Copolymer MP002

Thermoplastic Polyester
Eastman Chemical Company

Message:

Eastman Provista™ Copolymer MP002 is a resin specifically developed for extrusion into profiles for medical applications where aesthetics such as high clarity and gloss, coupled with design flexibility and enhanced toughness, drive demand. Compared to commonly used materials, Eastman Provista™ copolymer runs on most standard processing equipment at increased speeds. Extremely high melt strength makes the resin an excellent choice when extruding profiles into complicated shapes. In addition to profile extrusion, Eastman 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.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Features	Biocompatible		
	Good Melt Strength		
	Good Toughness		
	High Clarity		
	High Gloss		
Uses	Medical/Healthcare Applications		
	Profiles		
	Tubing		
Agency Ratings	ISO 10993		
	USP Class VI		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Color			ASTM D2244
a	-0.20		
b	0.60		
L	95		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ASTM D638

Tensile Strength			ASTM D638
Yield, 23°C	47.0	MPa	
Break, 23°C	48.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	300	%	
Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (23°C)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	63	J/m	
23°C	No Break		
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	39.0	J	
0°C, Energy at Peak Load	41.0	J	
23°C, Energy at Peak Load	41.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	85.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	143		ASTM D2457
Transmittance			ASTM D1003
Total	91.0	%	
Regular	87.0	%	
Haze	1.3	%	ASTM D1003

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