Provista™ Copolymer ST

Thermoplastic Polyester

Eastman Chemical Company

Message:

Eastman Provista™ Copolymer ST is a resin specifically developed for profile extrusion where high clarity and gloss, toughness, and processability are critical. Eastman Provista™ Copolymer ST is a second-generation material that complements Eastman Provista™ by offering similar features, while providing greater toughness. Eastman Provista™ Copolymer ST is ideal in applications that place greater physical demands on the profile.
This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.
The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman™ Copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Gloss		
Uses	Decorative Displays		
	Profiles		
	Tubing		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	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
Regular	87.0	%	
Total	91.0	%	
Haze	1.3	%	ASTM D1003

Recommended distributors for this material

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