EASTMAN

Technical Data Sheet

Eastman Provista™ Copolymer UVO

Applications

- Equipment & machinery
- Point-of-purchase
- Profiles
- Wood furniture

Key Attributes

- Ease of processing
- Excellent chemical resistance
- Sparkling clarity and high gloss
- Toughness with flexibility

Product Description

Eastman Provista™ UVO is a copolymer with an indoor/outdoor UV package added to prevent yellowing caused by light. 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, Eastman 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. This product is certified to ANSI/NSF Standard 51.

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 . Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General Properties		
Density	D 792	1.27 g/cm^3
Mechanical Properties		
Tensile Stress @ Yield	D 638	50 MPa (7300 psi)
Tensile Stress @ Break	D 638	29 MPa (4200 psi)
Elongation @ Yield	D 638	4 %
Elongation @ Break	D 638	109 %
Flexural Modulus	D 790	2200 MPa (3.2 x 10^5 psi)
Flexural Strength	D 790	72 MPa (10400 psi)
Rockwell Hardness, R Scale	D 785	106
Izod Impact Strength, Notched[d]		
@ 23°C (73°F)	D 256	94 (9C/1NB) J/m (1.8 (9C/1NB) ft·lbf/in.)
@ -40°C (-40°F)	D 256	52C J/m (1.0C ft·lbf/in.)
Impact Strength, Unnotched[e]		
@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB
Impact Resistance (Puncture), Energy @ Max. Load[f]		
@ 0°C (32°F)	D 3763	37 J (27 ft·lbf)
@ 23°C (73°F)	D 3763	33 J (24 ft·lbf)
@ -40°C (-40°F)	D 3763	41 J (30 ft·lbf)

Optical Properties		
Haze	D 1003	0.6 %
Regular Transmittance	D 1003	88 %
Total Transmittance	D 1003	90 %
Gloss		
@ 60°	D 2457	171
Color, b*		
CIELAB, Illuminant D6500, 10° Observer	D 2244	0.61
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	67 °C (153 °F)
@ 1.82 MPa (264 psi)	D 648	62 °C (144 °F)
Vicat Softening Temperature		
@ 1 kg load	D 1525	79 °C (174 °F)

[a]*Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*
[b]*Unless noted otherwise, the test method is ASTM.*
[c]*Units are in SI or US customary units.*
[d]*Testing conducted using 10 standard flex bars with 20 mil notch; C = complete break; NB = nonbreak.*
[e]*Nonbreak as defined by ASTM D 4812.*
[f]*Testing conducted using 10 standard 4" x 4" x 0.125" thick injection molded plaques; 100% ductile break.*

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.

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