

Eastman Eastman AP006 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications:Automotive componentsBreathable filmsElectrical/electronic componentsFilm ModificationFlexible hingesHose mandrelIndustrial componentsIndustrial hoses/beltsOffice furniturePackagingPolymer modificationProfilesRubber and plastic modificationSporting goodsThermoplastic elastomer compoundsTubing

Key Attributes:Environmentally preferred, non-halogenated materialExcellent chemical and oil resistanceExcellent compatibility with a wide range of polymersExcellent processabilityExceptional heat resistance and high temperature dimensional stabilityHigh energy absorptionHigh flexibility without plasticizersMelt bondable to a variety of substrates, including PVCOutstanding toughness and puncture resistanceSolvent bondable

Product Description: Eastman AP006 is a tough, clear, durable copolyester ether that combines the strength of plastics, the flexibility of elastomers, and the processability of thermoplastics. Eastman AP006 can be used in injection molding and film or tubing extrusion applications or in any application that demands strength, durability, chemical resistance, and puncture resistance in harsh environments. This copolyester combines toughness, clarity, high temperature resistance and flexibility without the addition of plasticizers. Eastman AP006 is considered environmentally preferred because of its non-halogenated material composition. Its broad compatibility with other polymers such as styrenic block copolymers makes it an excellent choice for both alloys and as additives/modifiers to improve performance properties.

Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastman-AP006-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	Immersion; ASTM D570
Viscosity Measurement	1.16	1.16	Inherent; EMN-A-AC-G-V-1
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	14.0 MPa	2030 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Elongation at Yield	38 %	38 %	ASTM D638

Mechanical Properties	Metric	English	Comments
Flexural Modulus	0.150 GPa	21.8 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Temperature -40.0 °C	0.749 ft-lb/in @Temperature -40.0 °F	ASTM D256
Tear Strength, Total	350 N	78.7 lb (f)	ASTM D1004
Torsional Stiffness	240 MPa @Temperature -28.0 °C	34800 psi @Temperature -18.4 °F	ASTM D1043
	930 MPa @Temperature <=-70.0 °C	135000 psi @Temperature <=-94.0 °F	ASTM D1043

Thermal Properties	Metric	English	Comments
Heat of Fusion	27.0 J/g	11.6 BTU/lb	ASTM E793
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ASTM D696
Specific Heat Capacity	1.60 J/g-°C @Temperature 25.0 °C	0.382 BTU/lb-°F @Temperature 77.0 °F	solid; DSC
	1.80 J/g-°C @Temperature 100 °C	0.430 BTU/lb-°F @Temperature 212 °F	solid; DSC
	2.00 J/g-°C @Temperature 150 °C	0.478 BTU/lb-°F @Temperature 302 °F	solid; DSC
	2.30 J/g-°C @Temperature 175 °C	0.550 BTU/lb-°F @Temperature 347 °F	solid; DSC
	2.30 J/g-°C @Temperature 225 °C	0.550 BTU/lb-°F @Temperature 437 °F	melt; DSC
	3.10 J/g-°C @Temperature 200 °C	0.741 BTU/lb-°F @Temperature 392 °F	transition; DSC
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft²-°F	ASTM C177
Melting Point	205 °C	401 °F	Crystalline Peak; ASTM D3418
Crystallization Temperature	140 °C	284 °F	DSC
Vicat Softening Point	170 °C @Load 1.00 kg	338 °F @Load 2.20 lb	ASTM D1525

Thermal Properties _{ature}	Metric _{0 °C}	English _{°F}	Comments
Glass Transition Temp, Tg	-3.00 °C	26.6 °F	DSC

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