

Eastman Eastar CN005 Copolyester, High Flow Grade

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications: Compacts, Cosmetic jar caps, Cosmetic jars, Cosmetics/personal care packaging, Fragrance caps, Fragrance packaging, Lip gloss containers, Lipstick containers, Personal care bottles.

Key Attributes: Ability to mold thick parts, Ease of processing, Easy to extrude, cut, decorate and seal, Excellent chemical resistance, Excellent clarity and color, Excellent colorability, Good impact strength, Good stiffness, High gloss appearance, Improved gate aesthetics, Readily fill intricate molds.

Toughness Product Description: Eastar CN005 copolyester is a high flow product. It is the first copolyester resin from Eastman that has been designed and engineered specifically for cosmetics packaging applications. With its great color and clarity and ability to mold thick parts with improved gate aesthetics, Eastar CN is clearly the most suited copolyester for premium cosmetics packaging. Other features of Eastar CN are excellent chemical resistance, high gloss, and improvements in processing such as faster drying times, faster cycle times, and lower scrap rates. Eastar CN is also ideally suited for two-shot molding techniques due to its lower processing temperatures, very slow crystallization rate, and flow characteristics. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-CN005-Copolyester-High-Flow-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	193 %	193 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched	0.380 J/cm @Temperature -40.0 °C	0.712 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.700 J/cm @Temperature 23.0 °C	1.31 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	NB	NB	ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Puncture Energy	40.0 J	29.5 ft-lb	At Max load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 0.60 %	<= 0.60 %	ASTM D1003
Transmission, Visible	90 %	90 %	Total; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	205 - 240 °C	401 - 464 °F	
Mold Temperature	16.0 - 50.0 °C	60.8 - 122 °F	
Drying Temperature	50.0 °C	122 °F	
Dry Time	2 - 4 hour	2 - 4 hour	

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