ENSTMAN



Applications

- Auto plastics
- Bottles-skin care pkg
- Closures-fragrance pkg
- Consumer electronics
- Consumer housewares food contact (fc)
- Deoderant containers
- Equipment & machinery
- Fragrance packaging
- Jars-skin care pkg
- Packaging components non food contact
- Personal care & cosmetics packaging
- Personal care bottles
- Skin care packaging
- Sporting equipment
- Water/sport bottles

Product Description

Eastar[™] EN058 Copolyester is a copolymer PET. It is crystallized and has an Intrinsic Viscosity of 0.58. Eastar[™] EN058 copolyester is tailored to meet the need of the injection-molded cosmetics and personal care market. Easter[™] EN058 is crystallized to allow faster, high-temperature drying. Its high-flow characteristics allow faster cycle times.

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.

Property ^a	Test Method ^b	Typical Value, Units ^c
General Properties		
Specific Gravity	D 792	1.33
Mold Shrinkage	D 955	0.002 mm/mm (0.002 in./in.)
Water Absorption, 24 h immersion	D 570	0.19 %
Mechanical Properties		
Tensile Stress @ Yield	D 638	58 MPa (8400 psi)
Tensile Stress @ Break	D 638	24 MPa (3500 psi)
Elongation @ Yield	D 638	4 %
Elongation @ Break	D 638	90 %
Flexural Yield Strength	D 790	78 MPa (11300 psi)
Flexural Modulus	D 790	2400 MPa (3.5 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	111
Izad Impact Strongth Notchod		

Typical Properties

Izod Impact Strength, Notched



@ 23°C (73°F)	D 256	56 J/m (1.0 ft·lbf/in.)		
@ -40°C (-40°F)	D 256	33 J/m (0.6 ft·lbf/in.)		
Impact Strength, Unnotched				
@ 23°C (73°F)	D 4812	NB		
@ -40°C (-40°F)	D 4812	2446 J/m (46 ft·lbf/in.)		
Impact Resistance (Puncture), Energy @ Max. Load				
@ 23°C (73°F)	D 3763	32 J (24 ft·lbf)		
@ -40°C (-40°F)	D 3763	38 J (28 ft·lbf)		
Optical Properties				
Haze	D 1003	<1 %		
Total Transmittance	D 1003	82 %		
Thermal Properties				
Deflection Temperature				
@ 0.455 MPa (66 psi)	D 648	69 °C (156 °F)		
@ 1.82 MPa (264 psi)	D 648	63 °C (145 °F)		
Vicat Softening Temperature				
@ 1 kg load	D 1525	80 °C (176 °F)		
Typical Processing Conditions				
Drying Temperature		160 °C (320 °F)		
Drying Time		4-6 hrs		
Processing Melt Temperature		277-293 °C (530-560 °F)		
Mold Temperature		16-32 °C (60-90 °F)		

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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