EASTMAN

Technical Data Sheet

Eastman™ Polyester F61HC

Applications

- Automotive
- Automotive parts & accessories
- Commercial housewares
- Compounders
- Consumer housewares-nfc
- Decorative laminates-wood
- Electronic connectors
- Graphic arts
- Strapping
- Visual merchandising

Product Description

F61HC is a low IV (0.59 dL/g) homopolymer PET that is readily crystallized by both thermal and mechanical processes. It is a cost-effective option that continues to surpass expectations for quality, efficiency and convenience in a wide array applications.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Specific Gravity[d]	D 792	1.34
Mechanical Properties		
Tensile Stress @ Yield	D 638	58.4 MPa
Tensile Stress @ Break	D 638	22.8 MPa
Elongation @ Yield	D 638	3.7 %
Elongation @ Break	D 638	101.5 %
Tensile Modulus	D 638	2315 MPa
Flexural Yield Stress	D 790	85.3 MPa
Flexural Yield Strain	D 790	4.2 %
Flexural Break Stress	D 790	70.4 MPa
Flexural Break Strain	D 790	7.0 %
Flexural Modulus	D 790	2364 MPa
Izod Impact Strength, Notched	D 256	27.8 J/m
Impact Strength, Unnotched	D 4812	NB
Impact Resistance (Puncture), Energy @ Max. Load	D 3763	33.5 J
Impact Resistance (Puncture), Total Energy	D 3763	64.6 J
Optical Properties		
Gloss @ 60°	D 523	138.5
Total Transmittance	D 1003	84.9 %
Haze	D 1003	2.85 %
Color		
a*	E 313	-0.86
b*	E 313	0.98
L*	E 313	93.39
		1.57

Refractive Index	Metricon Model 2010 Prism Coupler	
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa	D 648	66 °C
@ 1.82 MPa	D 648	61 °C
Glass Transition Temperature (T_g)	DSC	78.2 °C
Crystalline Peak Melting Point (T_m)	DSC	250.4 °C

[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]*0.125 inch molded plaque*

Comments

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform to the values given.

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