Eastman™ F61HC

Polyethylene Terephthalate

Eastman Chemical Company

Message:

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.

General Information	
Features	Low viscosity
Uses	Laminate
	Electrical/Electronic Applications
	Furniture
	Household goods
	Connector
	Filter material
	Application in Automobile Field
	Non-woven fabric
	Fiber
	Consumer goods application field

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm³	ASTM D792
Color a	-0.860		ASTM E313
Color b	0.980		ASTM E313
Color L	93.4		ASTM E313
Flexural Strain at Break (23°C)	7.0	%	ASTM D790
Bending strain-at Yield (23°C)	4.2	%	ASTM D790
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2320	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	58.4	MPa	ASTM D638
Fracture, 23°C	22.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	3.7	%	ASTM D638
Fracture, 23°C	100	%	ASTM D638
Flexural Modulus (23°C)	2360	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, 23°C	85.3	MPa	ASTM D790
Fracture, 23°C	70.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C)	28	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Instrumented Dart Impact			ASTM D3763
23°C, Energy at Peak Load	33.5	J	ASTM D3763
23°C, Total Energy	64.6	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	66.0	°C	ASTM D648
1.8 MPa, not annealed	61.0	°C	ASTM D648
Glass Transition Temperature	78.2	°C	DSC
Melting Temperature	250	°C	DSC
Optical	**Nominal Value**	**Unit**	**Test Method**
Gardner Gloss (60°)	139		ASTM D523
Refractive Index [1]	1.570		
Transmittance (Total)	84.9	%	ASTM D1003
Haze	2.9	%	ASTM D1003
NOTE			
1.	Metricon Model 2010 Prism Coupler		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China