

Halar® 700 HC

Ethylene Chlorotrifluoroethylene Copolymer

Solvay Specialty Polymers

Message:

Halar® 700 HC is an Ethylene Chlorotrifluoroethylene Copolymer (ECTFE) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Halar® 700 HC are:

Flame Rated

Medium Viscosity

General Information			
Features	Medium Viscosity		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	7.0 to 10	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	1320	MPa	ASTM D882
Tensile Strength ²			ISO 527-3
Yield, 23°C	28.5	MPa	
Break, 23°C	41.4	MPa	
Tensile Elongation ³			ISO 527-3
Yield, 23°C	5.0	%	
Break, 23°C	310	%	
Coefficient of Friction (vs. Itself - Dynamic)	0.20		ASTM D1894
Taber Abrasion Resistance (1000 Cycles, 500 g, CS-17 Wheel)	16.5	mg	ASTM D4060
Films	Nominal Value	Unit	Test Method
Trouser Tear (23°C, 3.20 mm)	420.0	kN/m	DIN 53363
Crystallization Heat	22.7	J/g	ASTM D3418
Heat of Fusion	24.0	J/g	ASTM D3418
Thermal Stability - 1% mass loss, N2	359	°C	TGA
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -50.0	°C	ASTM D746A
Glass Transition Temperature	70.0	°C	DMA
Melting Temperature	200	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	180	°C	ASTM D3418

Thermal Conductivity (23°C)	0.79	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 3.20 mm)	14	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	2.57		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	> 52	%	ASTM D2863
NOTE			
1.	8.0 mm/min		
2.	500 mm/min		
3.	500 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

