

Halar® 5001C

Ethylene Chlorotrifluoroethylene Copolymer

Solvay Specialty Polymers

Message:

Powder grades for masterbatches.

General Information			
Features	Low Viscosity		
Uses	Masterbatch		
	Wire & Cable Applications		
Forms	Powder		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.5	%	ASTM D955
Water Absorption (Equilibrium)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	1660	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 23°C	30.0	MPa	
Break, 23°C	47.0	MPa	
Tensile Elongation ³			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	250	%	
Flexural Modulus ⁴ (23°C)	1690	MPa	ASTM D790
Flexural Strength ⁵ (23°C)	47.0	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.20		
vs. Itself - Static	0.20		
Taber Abrasion Resistance (1000 Cycles, 500 g, CS-17 Wheel)	5.00	mg	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-40°C, 3.20 mm	210	J/m	
23°C, 3.20 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.0	°C	
1.8 MPa, Unannealed	65.0	°C	
Brittleness Temperature	< -76.0	°C	ASTM D746A
Glass Transition Temperature	85.0	°C	DMA
Melting Temperature	242	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	222	°C	ASTM D3418
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Specific Heat (23°C)	962	J/kg/°C	ASTM D3418
Thermal Conductivity (40°C)	0.15	W/m/K	ASTM C177
Crystallization Heat	40.0	J/g	ASTM D3418
Heat of Fusion	42.0	J/g	ASTM D3418
Thermal Stability - 1% mass loss, N2	405	°C	TGA
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁶ (23°C)	5.5E+16	ohms·cm	ASTM D257
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.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	2.5 mm/min		
5.	2.5 mm/min		
6.	50% RH		

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



WECHAT