More Products with More Performance™

Halar® 901

chlorotrifluoroethylene polyethylene

General	- O' ! A !'			
Material Status				
Availability	 Africa & Middle East Asia Pacific	EuropeNorth America	South America	
Features	 High Viscosity 			
Forms	Pellets	Powder		
Processing Method	• Extrusion			
Physical		Typical Value Unit	Test Method	
Specific Gravity		1.68	ASTM D792	
Melt Mass-Flow Rate (MFR) (275°C/2	.16 kg)	1.0 g/10 min	ASTM D1238	
Molding Shrinkage - Flow		0.025 in/in	ASTM D955	
Water Absorption (Equilibrium)		< 0.10 %	ASTM D570	
Mechanical		Typical Value Unit	Test Method	
Tensile Modulus ¹ (73°F)		240000 psi	ASTM D638	
Tensile Strength ¹			ASTM D638	
Yield, 73°F		4350 psi		
Break, 73°F		7830 psi		
Tensile Elongation ¹			ASTM D638	
Yield, 73°F		5.0 %		
Break, 73°F		250 %		
Flexural Modulus ² (73°F)		245000 psi	ASTM D790	
Flexural Strength 2 (73°F)		6820 psi	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		Typical Value Unit	Test Method	
Notched Izod Impact			ASTM D256	
-40°F, 0.126 in		3.9 ft·lb/in		
73°F, 0.126 in		No Break		
Hardness		Typical Value Unit	Test Method	
Rockwell Hardness (R-Scale)		90	ASTM D785	
Durometer Hardness (Shore D)		75	ASTM D2240	
Thermal		Typical Value Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
66 psi, Unannealed		194 °F		
264 psi, Unannealed		149 °F		
Brittleness Temperature		< -105 °F	ASTM D746A	
Glass Transition Temperature		185 °F	DMA	
Melting Temperature		468 °F	ASTM D3418	
Peak Crystallization Temperature (DSC	C)	432 °F	ASTM D3418	
CLTE - Flow		0.00056 in/in/°F	ASTM D696	

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Typical Value Unit	Test Method
0.230 Btu/lb/°F	ASTM D3418
1.0 Btu·in/hr/ft²/°F	ASTM C177
40.0 J/g	ASTM D3418
42.0 J/g	ASTM D3418
761 °F	TGA
Typical Value Unit	Test Method
5.5E+16 ohm·cm	ASTM D257
350 V/mil	ASTM D149
2.57	ASTM D150
Typical Value Unit	Test Method
V-0	UL 94
52 %	ASTM D2863
	0.230 Btu/lb/°F 1.0 Btu·in/hr/ft²/°F 40.0 J/g 42.0 J/g 761 °F Typical Value Unit 5.5E+16 ohm·cm 350 V/mil 2.57 Typical Value Unit V-0

Notes

Typical properties: these are not to be construed as specifications.

¹ 2.0 in/min

² 0.098 in/min

³ 50% RH

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For assistance with an emergency involving this product, such as spill, leak, fire or explosion, call day or night:

Emergency Health Information

USA +1.800.621.4590

International +1.770.772.8577

Emergency Spill Information

USA +1.800.424.9300

+1.703.527.3887 (CHEMTREC)

Europe +44.208.762.8322 (CARECHEM)

China +86.10.5100.3039

All other Asian countries +65.633.44.177

For additional product information, technical assistance and Material Safety Data Sheets (MSDS), call:

USA + 1.800.621.4557 / +1.770.772.8760

Europe +49.211.5135.9000

Japan +81.3.5425.4300

China & Southeast Asia +86.21.5080.5080

Material Safety Data Sheets (MSDS) for products of Solvay Specialty Polymers are available upon request from your sales representative or by emailing us at specialtypolymers@solvay.com. Always consult the appropriate MSDS before using any of our products.

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