

Halar® 350LC

ethylene chlorotrifluoroethylene copolymer

General			
Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Medium Viscosity		
Forms	• Pellets		
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)		3.0 to 6.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow		2.5 %	ASTM D955
Water Absorption (Equilibrium)		< 0.10 %	ASTM D570
Mechanical		Typical Value Unit	Test method
Tensile Modulus 1 (23°C)		1660 MPa	ASTM D638
Tensile Strength ¹			ASTM D638
Yield, 23°C		30.0 MPa	
Break, 23°C		54.0 MPa	
Tensile Elongation ¹			ASTM D638
Yield, 23°C		5.0 %	
Break, 23°C		250 %	
Flexural Modulus ² (23°C)		1690 MPa	ASTM D790
Flexural Strength ² (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 W	Vheel	5.00 mg	
Impact		Typical Value Unit	Test method
Notched Izod Impact		Typical value offic	ASTM D256
-40°C, 3.20 mm		210 J/m	
23°C, 3.20 mm		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 L	oad		ASTM D648
0.45 MPa, Unannealed		90.0 °C	
1.8 MPa, Unannealed		65.0 °C	

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Thermal	Typical Value	Unit	Test method
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	Typical Value	Unit	Test method
Volume Resistivity 3 (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	Typical Value	Unit	Test method
Flame Rating	V-0		UL 94
Oxygen Index	52	%	ASTM D2863

Notes

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

- ¹ 50 mm/min
- ² 2.5 mm/min
- 3 50% RH

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