

Generic ECTFE

Ethylene Chlorotrifluoroethylene Copolymer

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic ECTFE

This information is provided for comparative purposes only.

General Information			
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)	1.0 to 25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	90		ASTM D785
Durometer Hardness (23°C)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1650 to 1660	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	29.6 to 30.1	MPa	
Break, 23°C	46.5 to 54.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0 to 9.9	%	
Break, 23°C	240 to 250	%	
Flexural Modulus (23°C)	1690	MPa	ASTM D790
Flexural Strength (23°C)	47.0	MPa	ASTM D790
Coefficient of Friction	0.20		ASTM D1894
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.0 to 90.6	°C	
1.8 MPa, Unannealed	64.9 to 65.2	°C	
Brittleness Temperature	-76.1 to -73.7	°C	ASTM D746
Melting Temperature	225 to 242	°C	
Peak Crystallization Temperature (DSC)	222 to 223	°C	ASTM D3418
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	5.4E+16 to 5.5E+16	ohms · cm	ASTM D257
Dielectric Strength (23°C)	14 to 19	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.57		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	52	%	ASTM D2863

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