

Quadrant EPP Symalit ECTFE

Ethylene Chlorotrifluoroethylene Copolymer

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Symalit ECTFE is an Ethylene Chlorotrifluoroethylene Copolymer (ECTFE) product. It can be processed by extrusion and is available in North America.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Corrosion Resistant
- Good Dimensional Stability
- Impact Resistant

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Dimensional Stability		
	High Impact Resistance		
	Hydrocarbon Resistant		
	Solvent Resistant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.010	%	
Saturation	0.010	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Ultimate)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength (Yield)	48.3	MPa	ASTM D790
Compressive Strength (10% Strain)	34.5	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	76.7	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	149	°C	

Peak Crystallization Temperature (DSC)	240	°C	ASTM D3418
CLTE - Flow ¹ (-40 to 149°C)	1.2E-4	cm/cm/°C	ASTM E831
Thermal Conductivity	0.22	W/m/K	ASTM F433
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	> 1.0E+13	ohms	Internal Method
Dielectric Strength ³	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	68°F		
2.	EOS/ESD S11.11		
3.	Method A (Short-Time)		

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