



>> EXCEPTIONAL CHEMICAL RESISTANCE AND FIRE SAFETY

# SYMALIT<sup>®</sup> ECTFE



## Key Benefits

### Key Benefits

- High purity
- Color Consistency
- Excellent chemical resistance to solvents, strong acids and bases
- High-Quality Masked Surface
- Flame resistant
- Excellent impact strength
- USP Class VI, UL94 V-0
- Resin certified to FM 4910  
*Shapes certification to FM 4910 pending*
- Tolerances in accordance to ASTM D6713-01

### Applications

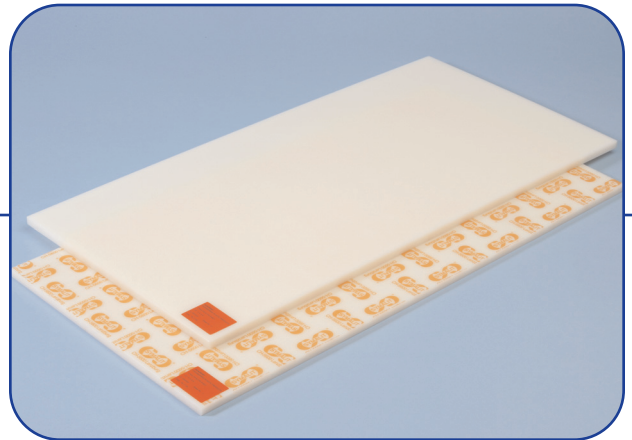
- Fluid handling
- Semiconductor equipment
- Fire safe componentry

Symalit<sup>®</sup> ECTFE offers a broad range of physical, mechanical, and flame resistant properties. It provides an excellent combination of properties designed to meet the standards of FM 4910 which governs the materials of construction for cleanroom equipment. The result is that this fluoroplastic continues to be a long-term choice for safety and protection in fire-safe systems. ●

Learn more at [www.quadrantplastics.com](http://www.quadrantplastics.com)

### Symalit ECTFE (ethylene chlorotrifluoroethylene)

Manufactured from Halar<sup>®</sup> resin, this material offers excellent corrosion and chemical resistance, particularly at elevated temperatures and in strong basic chemistries.



# Data Sheet - Symalit® ECTFE

English/  
Common  
Units

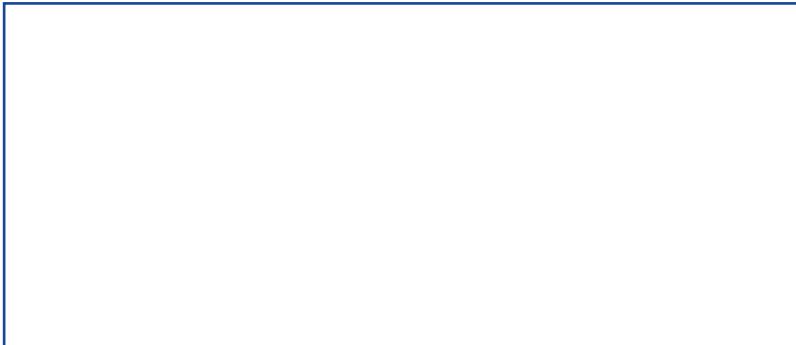
	Property	Method	Conditions	English/ Common Units	Values
Physical Properties	Specific Gravity	D792	-	-	1.68
	Melting Temperature	D3418	-	°F	464
	Water Absorption	D570	at 77°C, 24 hours	%	<0.01
Thermal Properties	Coefficient of Linear Thermal Expansion	D696	-	°F <sup>-1</sup>	6.6 x 10 <sup>-5</sup>
	Deflection Temperature	D648	at 264 psi	°F	170
Flammability	Limiting Oxygen Index	D2863	-	%	60
	Burning Rate	UL	Bulletin 94	-	V-0
Mechanical Properties	Tensile Yield Strength	D638	-	psi	4,500
	Brake Elongation	D638	-	%	200
	Tensile Modulus	D638	-	psi	240,000
	Flexural Strength	D790	-	psi	7,000
	Flexural Modulus	D790	-	psi	240,000
	Compressive Strength	D695	-	psi	5,000
	Izod Impact Strength	D256	notched	ft-lb/in	no break
	Izod Impact Strength	D256	unnotched	ft-lb/in	>50
	Hardness	D2240	-	Shore D	75
Electrical Properties (at 77°F)	Volume Resistivity	D257	DC	ohm-cm	10 <sup>15</sup>
	Dielectric Constant	D150	100 Hz	-	3.5
			1 kHz	-	3.0
			100 kHz	-	2.5
	Dissipation Factor	D150	100 Hz	-	.005
			1 kHz	-	.004
			100 kHz	-	.003
Dielectric Strength	D149	-	volts/mil	500	

All statements, technical information and recommendations contained in this publication are presented in good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant Engineering Plastic Products does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Quadrant's products in any given application.

Acetron, Duraspin, Duratron, Erta, Ertacetal, Ertalene, Ertalon, Ertalyte, Extreme Materials, Fluorosint, Ketron, MC, Monocast, Novatron, Nylatrack, Nylatron, Polypenco, Semitron, Symalit, Techtron, Ultrawear and Vibratuf are registered trademarks of the Quadrant group of companies.

Halar is a registered trademark of Solvay Solexis.

Distributed by:



## Regional Headquarters

### EUROPE

I.P. Noord - R. Tavernierlaan 2  
8700 Tielt - Belgium  
Tel +32 (0) 51 42 35 11  
Fax +32 (0) 51 42 33 00  
e-mail: europe.epp@qplas.com

### NORTH AMERICA

2120 Fairmont Avenue  
PO Box 14235 - Reading, PA 19612-4235  
Tel 800 366 0300 / +1 610 320 6600  
Fax 800 366 0301 / +1 610 320 6868  
e-mail: americas.epp@qplas.com

### ASIA-PACIFIC

108 Tai To Tsuen, Ping Shan  
Yuen Long - N.T. Hong Kong  
Tel +852 (0) 24702683  
Fax +852 (0) 24789966  
e-mail: asia.epp@qplas.com

Visit our website for additional information: [www.quadrantplastics.com](http://www.quadrantplastics.com)



QUADRANT