



**POLYSULFONE**

Property	Test Method	Units	Polysulfone
<b>Mechanical</b>			
Specific Gravity	ASTM-D792	–	1.24
Tensile Strength	ASTM-D638	psi	10,200
Tensile Elongation	ASTM-D638	%	50
Tensile Modulus of Elasticity	ASTM-D638	psi	360,000
Flexural Strength	ASTM-D790	psi	15,400
Flexural Modulus of Elasticity	ASTm-D790	psi	390,000
Izod Notched Impact	ASTM-D256	ft.-lbs./in.	1.3
Rockwell Hardness	ASTM-D785	M scale	M82
<b>Thermal</b>			
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./°F	3.2x 10 <sup>-5</sup>
Max. Continuous Use Temp.	Nytec std	°F	320
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	345
Glass Transition Temperature	ASTM-D3418	°F	374
Melting Point	ASTM-D789	°F	650-750
<b>Electrical</b>			
Dielectric Strength – Short Term	ASTM-D149	volts/mil	425
Dielectric Constant @60 Hz	ASTM-D150		3.07
Dielectric Constant @ 10 <sup>6</sup> Hz	ASTM-D150		3.03
Dissipation Factor @ 60 Hz	ASTM-D150		0.0008
Volume Resistivity	ASTM-D257	ohm-cm	>10 <sup>16</sup>
<b>Miscellaneous</b>			
Water Absorption/24 hrs.	ASTM-D570	% weight	0.3
Water Absorption @ saturation	ASTM-D570	% weight	0.6
Flammability	UL 94		V-0
Color			Amber
<b>Agency Approvals</b>			
FDA/USDA			Yes
3-A Dairy Standards			Yes
NSF Std. 61			Yes
USP Class VI			Yes

IMPORTANT: The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Lehigh Valley Plastics, Inc. will not be held responsible for the use of this information relative to actual application.