



**High Performance Urethane
For
“Can’t Fail” Applications**

POLYURETHANE ST-3478

POLYMER: Non-Halogen FR* thermoplastic polyether polyurethane

DESCRIPTION: ST3478 is an aromatic thermoplastic polyether urethane with non-halogen flame retardant*. Samples tested at 0.002” thickness have met the criteria for UL94 VTM-0 rating. 0.001” and 0.002” thick samples pass the NFPA 701 small scale testing.

GENERAL PROPERTIES

	Specifications	Units	Values
Durometer:	D2240		80A
Specific Gravity:	D792		1.15
Thermal Properties:			
Maximum Service Temperature			
-continuous		°F °C	-40° to 160° -40° to 71°
-melting point range		°F °C	320° to 352° 160° to 178°
Tensile Properties:	D638		
Modulus @ 100% strain		psi	950
Modulus @ 300% strain		psi	1800
Modulus @ break		psi	4500
Modulus of elasticity up To 10% strain		Psi	N/A
Elongation @ break		%	425
Set @ break		%	35
Tear Properties:			
Die C	D624	pli	425

When mentioning “flame retardant (FR)”, it refers to the use of additives to improve flammability properties that are measured in small-scale laboratory tests. These tests provide relative burning rates. There is no association with our product performance in actual fire situations. Like all organic materials, ST-3478 will burn under the right conditions.

All information and recommendations contained herein are based upon data believe to be correct but JPS makes no warranty either expressed or implied, and assumes no responsibility for the accuracy of the data presented.