

# V-TEM 80

Thermoplastic Elastomer

S&E; Polymer Solutions, Inc.

## Message:

S&E Polymer Solutions (SEPS) offers a range of ultrasoft TPEs in its VTEM product line for applications in the industrial, electronics, medical, and consumer markets. The durometers of these materials are among the softest of all TPEs and exhibit exceptional tear strength, elongation, and compression set. If your design requires alternatives to our standard VTEM line we will custom engineer a TPE to meet your specific performance requirements. SEPS designers have over 60 years of engineering and materials science experience to ensure that our VTEM TPEs or custom formulations will provide the greatest value for your specific applications.

### WHAT ARE V-TEMS

Plasticized polymers with a range of durometers and toughness to meet various material requirements.

### MATERIAL CHARACTERISTICS OF V-TEMS

Viscous, high elongation, thermoplastic, non-toxic, cushioning, lubricating.

### MODIFICATIONS AND ADDITIVES

Specific oils for exudation, fragrances, over-the-counter (OTC) additives, triglyceride based formulations.

General Information			
Additive	Plasticizer		
Features	High Elongation		
	Lubricated		
	Non-Toxic		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore OO)	18		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	0.421	MPa	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	0.0193	MPa	
300% Strain	0.0483	MPa	
Tensile Strength (Break)	0.374	MPa	ASTM D412
Tensile Elongation (Break)	1800	%	ASTM D412
Compression Set	< 1.0	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -45.6	°C	ASTM D746

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