

## VINPOL™ TPU93AEET

### Thermoplastic Polyurethane-Polyether Based for Extrusion

93 Shore A

Polyether

**VINPOL TPU93AEET** is a colorless polyether-based TPU product formulated for extrusion applications and available in pellet form. This product has excellent processability, abrasion resistance and toughness as well as good hydrolytic stability, oil, fuel and solvent resistance. Typical applications include those requiring FDA, cable sheathing, spiral and pneumatic tubing, film, irrigation hoses, conveyor hoses, fire hoses, hydraulic hoses, cable jacketing, flat flex cables and automotive sensor cables.

Resin Property	Typical Value	Units	Test Method
Density	1.13	g/cm <sup>3</sup>	ASTM D-792
Taber Abrasion Resistance	48.0	mg	ASTM D-1044
Tensile Stress (100% strain)	1,450 (10)	psi (MPa)	ASTM D-412
Tensile Stress (300% strain)	2,465 (17)	psi (MPa)	ASTM D-412
Tensile Strength @ Break	5,800 (40)	psi (MPa)	ASTM D-412
Tensile Elongation @ Break	460	%	ASTM D-412
Tear Strength, Die C	812 (145)	lbf/in (kN/m)	ASTM D-624
Compression Set, 75°F, 22 hrs	28	%	ASTM D-395B
Compression Set, 158°F, 72 hrs	43	%	ASTM D-395B
Durometer Hardness	93/42	Shore A/Shore D	ASTM D-2240
Brittleness Temperature	-31 (-35)	°F (°C)	DSC
Vicat Softening Temperature	264 (129)	°F (°C)	ASTM D-1525
Flame Rating, 0.04 in	HB	-	UL 94
Flame Rating, 0.06 in	HB	-	UL 94
Flame Rating, 0.12 in	HB	-	UL 94

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