



VINPOL™ TPU50DEET

Thermoplastic Polyurethane-Polyether Based for Injection Molding

50 Shore D

Polyether

VINPOL TPU50DEET is a natural colored 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	1.15	g/cm ³	ASTM D-792
Taber Abrasion Resistance	50.0	Mg	ASTM D-1044
Tensile Stress (100% strain)	2,030	psi	ASTM D-412
Tensile Stress (300% strain)	3,920	psi	ASTM D-412
Tensile Strength @ Break	5,950	psi	ASTM D-412
Tensile Elongation @ Break	450	%	ASTM D-412
Tear Strength, Die C	952	lbf/in	ASTM D-624
Compression Set, 75°F, 22 hrs	33	%	ASTM D-395B
Compression Set, 158°F, 72 hrs	46	%	ASTM D-395B
Durometer Hardness	50	Shore D	ASTM D-2240
Brittleness Temperature	-27	°F	DSC
Vicat Softening Temperature	275	°F	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

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

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