

Technical Data Sheet

Type: Pearlstick™ 5719 TPU is a Polyester-Type Thermoplastic Polyurethane (TPU).

Features: High tensile strength, low temperature flexibility, and high adhesion to various substrates such as PET, PVC and various fabrics.

Uses: Fabric coating and audio tape binder, inks and solution cast pigment dispersion media.

Physical Properties	Value (Metric)	Units	Test Method
Specific Gravity	1.19		ASTM D-792
Shore Hardness	80A	Shore A	ASTM D-2240
Mechanical			
Tensile Strength	7300 (50.3)	psi (MPa)	ASTM D-412/D-638
Modulus			ASTM D-412/D-638
- 100% Elongation	350 (2.3)	psi (MPa)	
- 300% Elongation	900 (5.9)	psi (MPa)	
Ultimate Elongation	430	%	ASTM D-412/D-638
- 15% T.S. in MEK			RVT Spindle #2, 20 RPM, 23°C
- 15% T.S. in Cyclohexanone	200	cps	
Adhesion to PET	1500	cps	
Thermal			
Glass Transition Temperature, Tg	66 (19)	°F(°C)	DSC**
Vicat Softening Point	95 (35)	°F(°C)	ASTM D-1525

- ¹Prior to testing samples were conditioned at 23°C for 48 hours.
- Based on extruded sheet (30 mils) or Injection molded plaques (125 mils).
- Listed values are "typical (average) values" and should / cannot be applied for specification purposes.

*These are typical values and should not be used for establishing specifications.
Contact your representative for availability and commercialization status.

**Differential Scanning Calorimeter, 10°C/min, temperature program, from the second heat.

Supply Form and Standard Packaging

Pearlstick™ 5719 TPU is supplied in pellet form and packaged in 25Kg bags.

STORAGE

Pearlstick™ 5719 must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

For further information refer to Lubrizol Advanced Materials processing guides.

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