

Technical Data Sheet

Type: Pearlstick® 5715 F2 TPU is an aromatic polyester-based thermoplastic polyurethane.

Main Application: Solution coating

Physical Properties	Value (Metric)	Units	Test Method
Specific Gravity	1.20	g/cm ³	ISO 2781
Shore Hardness	A/1:95 – D/1:49	Shore A/D	ISO 868
Mechanical			
Tensile Strength	18	MPa	ISO 527-2/5A/200
Modulus			
- 50% Elongation	4	MPa	ISO 527-2/5A/200
- 100% Elongation	4	MPa	ISO 527-2/5A/200
Ultimate Elongation	350	%	ISO 527-2/5A/200
Brookfield Viscosity			
- 20% T.S. in THF	30-70	cps	
Tear Strength Unnicked	75	kN/m	ISO 34-1B
Thermal			
Kofler Melting Point	80	°C	Lubrizol
Solubility			
Methylethylketone (MEK)	Soluble		
Dimethylformamide (DMF)	Soluble		
Tetrahydrofuran	Soluble		
Ethylacetate	Swelling		
Cyclohexanone	Soluble		

- ¹Prior to testing samples were conditioned at 23°C for 48 hours.
- Based on solution cast films of 30-50 microns thickness.
- Listed values are "typical (average) values" and should/can not be applied for specification purposes.

Supply Form and Standard Packaging

Pearlstick® 5715F2 TPU is supplied in pellet form and packaged in 25Kg bags.

STORAGE

Pearlstick™ 5715F2 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.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

