

Technical Data Sheet

Type: Pearlstick™ 5701F51 is an aromatic polyester-based thermoplastic polyurethane.

Main Application: Solution coating.

Physical Properties*	Value (Metric)	Unit	Test Method
Hardness	A/1 : 85	Shore A/D	ISO 868
Specific Gravity	1.19	g/cm ³	ISO 2781
Tensile Strength	25	MPa	ISO 527-2/5A/200
Ultimate Elongation	550	%	ISO 527-2/5A/200
Tensile Stress at 50% Elongation	4	MPa	ISO 527-2/5A/200
100% Elongation	5	MPa	ISO 527-2/5A/200
300% Elongation	10	MPa	ISO 527-2/5A/200
Tear Strength Unnicked	75	kN/m	ISO 34-1B
Kofler Melting Point	130	°C	Lubrizol

Solubility		Solution Viscosity Specification Values 15% Total Solids in THF	
Methylethylketone (MEK)	Swelling	Brookfield R/VTD viscosimeter • Spindle n° 2 • 20 rpm • 23° C	50 – 150 mPa.s
Dimethylformamide (DMF)	Soluble		
Tetrahydrofuran	Soluble		
Ethylacetate	Insoluble		
Cyclohexanone	Soluble		

*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.

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