

Estane® 5714 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 5714 is a Polyether Type Thermoplastic Polyurethane (TPU).
Features: Low Temperature Flexibility, Excellent Abrasion, Fungal, and Chemical Resistance, and Hydrolytic Stability. Adhesives can be applied from solution or extruded as a melt coating. The resin is lightly dusted with calcium stearate and contains UV stabilizer.
Uses: Various adhesive and fabric coating, magnetic media binder and cast films for lamination

General Information			
Additive	UV Stabilizer		
Features	Fungus Resistant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Hydrolytically Stable		
	Low Temperature Flexibility		
Uses	Adhesives		
	Binder		
	Cast Film		
	Fabric Coatings		
	Laminates		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion Coating		
	Solution Coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	31.0	MPa	
100% Strain	4.80	MPa	
300% Strain	9.00	MPa	
Tensile Elongation (Break, 0.762 mm)	530	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.80	MPa	

300% Strain	9.00	MPa	
Tensile Strength (Break)	31.0	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-38.0	°C	DSC
Vicat Softening Temperature	71.0	°C	ASTM D1525
Ring and Ball Softening Point	174	°C	ASTM E28-92
Brookfield Viscosity ¹			
15% T.S. in Cyclohexanone : 23°C	3.70	Pa·s	
15% T.S. in THF : 23°C	0.900	Pa·s	
Gradient Bar Tack Temperature	127	°C	
Open Time	< 5.0	sec	ASTM D4497-94
T-Peel			ASTM D1876
Aluminum Foil	500.0	N/m	
Mylar Film	1500.0	N/m	
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (204°C)	72.0	Pa·s	ASTM D1084
NOTE			

1. RVT Spindle #2, 20 RPM

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