

# Estane® 5708 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

## Message:

Type: Estane® 5708 is a Polyester type thermoplastic polyurethane (TPU).  
Features: Very resilient product with excellent resistance to abrasion and tearing, low temperature flexibility, and resistant to certain chemicals.  
Uses: Hot melt adhesive, synthetic leather and fabric coating

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Low Temperature Flexibility		
	Resilient		
Uses	Adhesives		
	Fabric Coatings		
	Synthetic Leather		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	42.1	MPa	
100% Strain	5.50	MPa	
300% Strain	15.9	MPa	
Tensile Elongation (Break, 0.762 mm)	490	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.50	MPa	
300% Strain	15.9	MPa	
Tensile Strength (Break)	42.1	MPa	ASTM D412
Tensile Elongation (Break)	490	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>1</sup>	-33.0	°C	DSC
Vicat Softening Temperature	100	°C	ASTM D1525
Fill Analysis	Nominal Value	Unit	

Brookfield Viscosity - 20% T.S. in DMF <sup>2</sup> (23°C)	5.50	Pa·s
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NOTE

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|----|------------------------|
| 1. | 10°C/min, second heat  |
| 2. | RVT Spindle #2, 20 RPM |

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Recommended distributors for this material

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