

Lubrizol Estane® 5712 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estane® 5712 is a Polyester thermoplastic polyurethane (TPU). Feature: It has the highest peel and green strengths and shortest open-tack time of any Estane TPU resin used in adhesives. Supplied as pale amber granules, it is lightly dusted with talc. Higher heat resistance, tensile and bond strengths can be achieved with the addition of diisocyanates, peroxides, epoxies, and polyfunctional amides. Available in Americas, Europe, Middle East, Africa, India and Asia. Uses: Solution and melt coating. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-5712-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Viscosity	223000 cP @Temperature 204 °C	223000 cP @Temperature 399 °F	Melt Viscosity; ASTM D1084-88
Brookfield Viscosity	3000 cP @Temperature 23.0 °C	3000 cP @Temperature 73.4 °F	20% T.S. in MEK; 20 RPM; RVT Spindle #2

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength, Ultimate	37.2 MPa	5400 psi	ASTM D412
Tensile Strength, Yield	5.90 MPa	856 psi	100% elongation; ASTM D412
	9.00 MPa	1310 psi	300% elongation; ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
Peel Strength	1.40 kN/m	7.99 pli	T-Peel, Aluminum Foil; ASTM D1876-72
	6.50 kN/m	37.1 pli	T-Peel, Mylar Foil; ASTM D1876-72
	8.10 kN/m	46.2 pli	Final

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-39.0 °C	-38.2 °F	DSC
Ring & Ball Softening Point	184 °C	363 °F	ASTM E-28-92

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Temperature (°C)		
Green Strength (kN/m)	6.5	
Heat Activation (°C)	54	
Heat Resistance (°C)	70	Lubrizol 899
Open Tack Time (hour)	2	
Open Time (sec)	225	ASTM D4497-94

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