

Lubrizol ESTANE® 5713 Ester Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Features: It has the highest heat resistance of any Estane TPU resin used in adhesives. Supplied as pale amber granules, it is soluble in THF or THF/MEK blends. Higher heat resistance, tensile and bond strengths can be achieved with the addition of diisocyanates, peroxides, epoxies, and polyfunctional amides. Uses: Hot melt adhesive, solution cast films for lamination on fabrics Available in Americas, Europe, Middle East, Africa, India and Asia Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-5713-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Viscosity	130000 cP @Temperature 204 °C	130000 cP @Temperature 399 °F	ASTM D-1084-88
Brookfield Viscosity	800 - 1300 cP	800 - 1300 cP	RVT Spindle #2, 20 RPM, 23°C, 15% T.S. in THF

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	ASTM D2240
Tensile Strength	37.9 MPa	5500 psi	ASTM D412/D638
Elongation at Break	600 %	600 %	ASTM D412/D638
100% Modulus	0.00470 GPa	0.682 ksi	ASTM D412/D638
300% Modulus	0.00900 GPa	1.31 ksi	ASTM D412/D638
Peel Strength	0.400 kN/m	2.28 pli	ASTM D-1876-72
	5.30 kN/m	30.2 pli	ASTM D-1876-72
	7.20 kN/m	41.1 pli	TP-141

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D-1525
Glass Transition Temp, Tg	-43.0 °C	-45.4 °F	DSC
Ring & Ball Softening Point	170 °C	338 °F	ASTM E-28-92

Descriptive Properties	Value	Comments
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Gradient Bar Tack Temperature Descriptive Properties	84°C Value	Comments
Open Time	>315 sec	ASTM D-4497-94

Contact Songhan Plastic Technology Co.,Ltd.

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