

Lubrizol Advanced Materials PEARLBOND[®] 502 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

PEARLBOND[®] 502 is a linear, polycaprolactone-copolyester polyurethane with a high crystallization rate and a very high thermoplasticity level. Application: Pearlbond[®] 502 can be added to formulations of REACTIVE POLYURETHANE HOT-MELTS (HMPUR), in order to improve the crystallisation speed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLBOND-502-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	DIN 53.479
Viscosity	4.95e+6 cP @Temperature 130 °C	4.95e+6 cP @Temperature 266 °F	Melt; DIN 53.735
Melt Flow	90 - 145 g/10 min @Load 2.16 kg, Temperature 170 °C	90 - 145 g/10 min @Load 4.76 lb, Temperature 338 °F	ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	68.0 - 72.0 °C	154 - 162 °F	MQSA 70 A

Chemical Properties	Metric	English	Comments
Total Base Number	<= 3.0	<= 3.0	mg KOH/g; MQSA 47 A

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.15 %	<= 0.15 %	MQSA 44

Descriptive Properties	Value	Comments
Crystallization rate (minutes)	15 - 17	MQSA 12 B
Thermoplasticity	Very high	MQSA 68 A

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