

Lubrizol Advanced Materials PEARLBOND® 503 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond®, 503 is a linear, polycaprolactone-copolyester polyurethane, supplied in form of white spherical granules with a high crystallization rate and a very high thermoplasticity level. Application: Pearlbond®, 503 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-503-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Viscosity	500000 cP @Temperature 130 °C	500000 cP @Temperature 266 °F	Melt; ISO 1133
Melt Flow	60 - 100 g/10 min @Load 2.16 kg, Temperature 170 °C	60 - 100 g/10 min @Load 4.76 lb, Temperature 338 °F	ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	60.0 - 64.0 °C	140 - 147 °F	MQSA 70 A

Chemical Properties	Metric	English	Comments
Total Base Number	<= 5.0	<= 5.0	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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