

Lubrizol Advanced Materials Pearlbond® 118 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

The Pearlbond® grades are aromatic crystalline TPUs used for the production of heat activated shoe counters and toe puffs, and orthopedic products. The Pearlbond® grades are supplied in pellet form and can be applied by extrusion process (T-die) or sintering (in such case they must be previously cryogenically ground) Properties of Pearlbond 118: Very high crystallization rate. Low melting range. Medium activation temperature. Medium hardness. Very high melt viscosity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlbond-118-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Melt Flow	30 - 50 g/10 min	30 - 50 g/10 min	DDIN 53.735
	@Load 21.6 kg, Temperature 170 °C	@Load 47.6 lb, Temperature 338 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	DIN 53.505

Thermal Properties	Metric	English	Comments
Melting Point	150 - 160 °C	302 - 320 °F	Kofler; MQSA 70 A
Softening Point	70.0 - 80.0 °C	158 - 176 °F	Kofler; MQSA 70 A

Descriptive Properties	Value	Comments
Crystallization Rate	18-20 min	MQSA 12 B
Thermoplasticity Range	Low	MQSA 68 A

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