

Lubrizol Advanced Materials Pearlbond® D170 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® D170 is a TPU grade designed for use with Heat Sealable Fabrics. This grade is to be applied in thermo bonding (heat-sealing) processes, through which the adhesive is laid on a series of substrates (mostly fabrics), then treated with heat and pressure so as to bond them. In some cases, these TPUs are applied, after being ground into powder, through one of the usual methods: scatter coating, paste coating, powder point coating, double dot coating and engraved roller. Pearlbond® TPU benefits are valued in numerous applications. Applications for which D170 is specially suited are: Textile: Lamination, bonding of textile, linings for leather goods, clothing and footwear. Shoe uppers, sole bonding, shoe stiffeners. Properties of Pearlbond D170: Very high crystallization rate. Very high thermoplasticity range.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlbond-D170-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	DIN 53.479
Viscosity	960000 cP @Temperature 160 °C	960000 cP @Temperature 320 °F	Melt; DIN 53.735
Melt Flow	10 - 25 g/10 min @Load 2.16 kg, Temperature 170 °C	10 - 25 g/10 min @Load 4.76 lb, Temperature 338 °F	DDIN 53.735

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	DIN 53.505

Thermal Properties	Metric	English	Comments
Melting Point	66.0 - 70.0 °C	151 - 158 °F	MQSA 70 A

Descriptive Properties	Value	Comments
Crystallization Rate	Very High	MQSA 12 B
Thermoplasticity Range	Very High	MQSA 68 A

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