

Lubrizol Advanced Materials PEARLBONDÂ® 125/H Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbondâ„ç 125H is polyester-based thermoplastic polyurethane, supplied in form of colourless, translucent granules, combining hardness with excellent low-temperature flexibility and a low softening point. Application: Pearlbondâ„ç 125H can be used for making heat-sealable fabrics (thermobonding), obtained by coating processes such as scattering or dot-coating (powder or paste). In all cases, the product is previously ground into powder, by cryogenic grinding. The particle size of the powder will depend on the application technique to be used.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLBOND-125H-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/inÂ³	ISO 2781
Viscosity	890000 cP @Temperature 160 Â°C	890000 cP @Temperature 320 Â°F	Melt viscosity @ 2.16 kg; ISO 1133
Melt Flow	35 - 55 g/10 min @Load 2.16 kg, Temperature 190 Â°C	35 - 55 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ISO 868
Tensile Strength at Break	18.0 MPa	2610 psi	ISO 527
Elongation at Break	520 %	520 %	ISO 527
100% Modulus	0.00400 GPa	0.580 ksi	ISO 527
300% Modulus	0.00700 GPa	1.02 ksi	ISO 527

Thermal Properties	Metric	English	Comments
Melting Point	130 - 140 Â°C	266 - 284 Â°F	MQSA 111
Softening Point	110 - 130 Â°C	230 - 266 Â°F	MQSA 70A

Processing Properties	Metric	English	Comments
Zone 1	120 - 130 Â°C	248 - 266 Â°F	
Zone 2	130 - 140 Â°C	266 - 284 Â°F	

Processing Properties	Metric	English	Comments
Zone 4	145 - 155 Å°C	293 - 311 Å°F	
Die Temperature	145 - 155 Å°C	293 - 311 Å°F	

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