

Lubrizol Advanced Materials Pearlbond® 12C75 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® 12C75 is polyester-based thermoplastic polyurethane, supplied in form of colourless, translucent granules, combining hardness with excellent low-temperature flexibility and a low softening point. APPLICATIONS: Pearlbond® 12C75 is mainly used for making heat-sealable fabrics (thermobonding), obtained by coating processes such as: Hot Melt Coating system: Rotogravure hot melt printing. The product is melted in an extruder and then pumped into a deposit in front of the engraved roller. Powder Coating system: Scattering or dot-coating (powder or paste). 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-12C75-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 2781
Viscosity	1.05e+6 cP @Temperature 160 Â°C	1.05e+6 cP @Temperature 320 Â°F	Melt; ISO 1133
Melt Flow	15 - 40 g/10 min @Load 2.16 kg, Temperature 170 Â°C	15 - 40 g/10 min @Load 4.76 lb, Temperature 338 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ISO 868
Tensile Strength at Break	24.0 MPa	3480 psi	ISO 527
Elongation at Break	650 %	650 %	ISO 527
100% Modulus	0.00400 GPa	0.580 ksi	ISO 527
300% Modulus	0.00500 GPa	0.725 ksi	ISO 527

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

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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