

Lubrizol Advanced Materials Pearlbond® DIPP-119 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® DIPP-119 is polycaprolactone copolyester based thermoplastic polyurethane, supplied in form of translucent pellets.

Featuring low melting point and excellent transparency, this product offers excellent flexibility, elasticity and easy processing. Ideally used for extrusion or compound with PVC. Applications: Pearlbond® DIPP-119 is used mostly in extrusion applications where low melting point as well as improved adhesion over polar substrates is highly appreciated. It is ideal for PVC compounding. It is also used in solvent coating on textile substrates.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlbond-DIPP-119-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 2781
Melt Flow	25 - 50 g/10 min @Load 5.00 kg, Temperature 190 °C	25 - 50 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
Storage Temperature	15.0 - 25.0 °C	59.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70.0	70.0	ISO 2781
Tensile Strength at Break	12.0 MPa	1740 psi	ISO 527
Elongation at Break	800 %	800 %	ISO 527
100% Modulus	0.00200 GPa	0.290 ksi	ISO 527
300% Modulus	0.00300 GPa	0.435 ksi	ISO 527

Thermal Properties	Metric	English	Comments
Melting Point	100 - 110 °C	212 - 230 °F	MQSA 70 A
Softening Point	90.0 - 100 °C	194 - 212 °F	MQSA 70A

Processing Properties	Metric	English	Comments
Zone 1	120 - 130 °C	248 - 266 °F	
Zone 2	145 - 155 °C	293 - 311 °F	
Zone 3	160 - 170 °C	320 - 338 °F	

Processing Properties	Metric 75 Å°C	English 17 Å°F	Comments
Die Temperature	145 - 155 Å°C	293 - 311 Å°F	

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

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