

Lubrizol Advanced Materials Pearlbond® 12F75UV Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond®, 12F75UV is a UV-resistant standard polyester-based TPU supplied in form of translucent, colorless pellets, featuring a low melting point and very low gel content. Processed by extrusion and compounding. Applications: Pearlbond®, 12F75UV is designed for a wide variety of adhesive film applications requiring excellent adhesion in combination with good heat resistance and dry cleaning resistance. This grade can be both cast extruded and blown.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlbond-12F75UV-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------|
| Specific Gravity | 1.15 g/cc | 1.15 g/cc | ISO 2781 |
| Melt Flow | 40 - 60 g/10 min @Load 10.0 kg, Temperature 190 °C | 40 - 60 g/10 min @Load 22.0 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-----------|----------|
| Hardness, Shore A | 78 | 78 | ISO 868 |
| Tensile Strength at Break | 30.0 MPa | 4350 psi | ISO 527 |
| Elongation at Break | 525 % | 525 % | 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 °C | 266 - 284 °F | MQSA 70 A |
| Softening Point | 110 - 130 °C | 230 - 266 °F | MQSA 70 A |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Zone 1 | 145 - 155 °C | 293 - 311 °F | |
| Zone 2 | 155 - 165 °C | 311 - 329 °F | |
| Zone 3 | 165 - 170 °C | 329 - 338 °F | |
| Zone 4 | 170 - 180 °C | 338 - 356 °F | |
| Die Temperature | | | |

| Processing Properties | 170 - 180 °C Metric | 338 - 356 °F English | Comments |
|-----------------------|------------------------|-------------------------|----------|
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