

## Lubrizol Advanced Materials PEARLCOAT<sup>®</sup> 125K Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

### Material Notes:

PEARLCOAT<sup>®</sup> 125K is a polyester based TPU, supplied in form of translucent, colorless pellets, featuring medium softening point, and consistent quality pellets, low gel content as well low-temperature flexibility. PEARLCOAT<sup>®</sup> 125K is used in a wide range of applications: Melt coatings on textile substrates, for conveyor belts, belting, among other end uses, obtained by extrusion, calendaring or sintering (in this last case the product is previously ground, so as to be in powder form); Extruded films and fabric coatings; Low melting point carrier for TPU color and additives masterbatches. All information provided by Merquinsa

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-PEARLCOAT-125K-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-125K-Thermoplastic-Polyurethane-Elastomer.php)

| Physical Properties | Metric                       | English                      | Comments  |
|---------------------|------------------------------|------------------------------|-----------|
| Specific Gravity    | 1.20 g/cc                    | 1.20 g/cc                    | ASTM D792 |
| Melt Flow           | 10 g/10 min<br>@Load 21.6 kg | 10 g/10 min<br>@Load 47.6 lb |           |

| Mechanical Properties   | Metric       | English   | Comments                            |
|-------------------------|--------------|-----------|-------------------------------------|
| Hardness, Shore A       | 85           | 85        | ASTM D2240                          |
| Tensile Strength, Yield | 30.1 MPa     | 4360 psi  | ASTM D412                           |
| Elongation at Break     | 500 %        | 500 %     | ASTM D412                           |
| 100% Modulus            | 0.00600 GPa  | 0.870 ksi | ASTM D412                           |
| 300% Modulus            | 0.009018 GPa | 1.308 ksi | ASTM D412                           |
| Abrasion                | 25           | 25        | loss (mm <sup>3</sup> ); DIN 53.516 |

| Thermal Properties        | Metric        | English       | Comments                   |
|---------------------------|---------------|---------------|----------------------------|
| Melting Point             | 135 - 145 Â°C | 275 - 293 Â°F | MQSA 111                   |
| Glass Transition Temp, Tg | -27.2 Â°C     | -17.0 Â°F     | DSC, 10Â°C/min; DIN 51.007 |

| Processing Properties | Metric        | English       | Comments |
|-----------------------|---------------|---------------|----------|
| Zone 1                | 150 - 160 Â°C | 302 - 320 Â°F |          |
| Zone 2                | 160 - 170 Â°C | 320 - 338 Â°F |          |
| Zone 3                | 170 - 180 Â°C | 338 - 356 Â°F |          |

| Zone 4<br>Processing Properties | 175 - 185 Å°C<br>Metric | 347 - 365 Å°F<br>English | Comments |
|---------------------------------|-------------------------|--------------------------|----------|
| Die Temperature                 | 175 - 185 Å°C           | 347 - 365 Å°F            |          |
| Moisture Content                | <= 0.10 %               | <= 0.10 %                | MQSA 44  |

## Contact Songhan Plastic Technology Co.,Ltd.

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