

## Lubrizol Advanced Materials PEARLCOAT® 162K Thermoplastic Polyurethane Elastomer

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

### Material Notes:

PEARLCOAT® 162K is a polyether based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent low temperature flexibility and very good hydrolysis resistance. PEARLCOAT® 162K is used in melt coatings on textile substrates, for end-uses in industrial coatings (for life-jackets, etc.) obtained by extrusion and calendaring. PEARLCOAT® 162K is used for obtaining extruded films and fabric coatings. All information provided by Merquinsa

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-PEARLCOAT-162K-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-162K-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg	10 g/10 min @Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength, Yield	30.05 MPa	4359 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
100% Modulus	0.00501 GPa	0.727 ksi	ASTM D412
300% Modulus	0.01002 GPa	1.453 ksi	ASTM D412
Abrasion	25	25	loss (mm <sup>3</sup> ); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	143 - 154 Å°C	290 - 310 Å°F	MQSA 111
Glass Transition Temp, Tg	-42.2 Å°C	-44.0 Å°F	DSC, 10Å°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	160 - 168 Å°C	320 - 335 Å°F	
Zone 2	168 - 179 Å°C	335 - 355 Å°F	
Zone 3	179 - 191 Å°C	355 - 375 Å°F	
Zone 4	185 - 193 Å°C	365 - 380 Å°F	

Processing Properties

Metric 193 Å C

English 380 Å F

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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