

## Lubrizol Advanced Materials PEARLCOAT® 168K Thermoplastic Polyurethane Elastomer

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

### Material Notes:

PEARLCOAT® 168K is a polyether-based TPU, supplied in form of translucent, colorless pellets, offering adequate hardness, excellent low-temperature flexibility and very good hydrolysis resistance. PEARLCOAT® 168K is used in melt coatings on textile substrates, for end-uses in industrial coatings (for life-jackets, etc.) obtained by extrusion and calendering. All information provided by Merquinsa

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-PEARLCOAT-168K-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-168K-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	25.0 MPa	3630 psi	ASTM D412
Elongation at Break	350 %	350 %	ASTM D412
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412
300% Modulus	0.00752 GPa	1.09 ksi	ASTM D412
Tear Strength	75.4 kN/m	430 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm <sup>3</sup> ); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	150 - 160 Å°C	302 - 320 Å°F	MQSA 111
Glass Transition Temp, Tg	-48.9 Å°C	-56.0 Å°F	DSC, 10Å°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	150 - 160 Å°C	302 - 320 Å°F	
Zone 2	160 - 170 Å°C	320 - 338 Å°F	
Zone 3	170 - 180 Å°C	338 - 356 Å°F	
Zone 4	175 - 185 Å°C	347 - 365 Å°F	

Processing Properties	Metric	English	Comments
Die Temperature	175 - 185 A°C	347 - 355 A°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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