

## Lubrizol Advanced Materials PEARLCOAT® Activa D118K Thermoplastic Polyurethane Elastomer

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

### Material Notes:

PEARLCOAT® Activa D118K is a polycaprolactone copolyester based thermoplastic polyurethane of low hardness, supplied in form of natural pellets. This product gives an inherent "low gloss aspect" on the final product surface after extrusion processing. Featuring low gel content as well as low-temperature flexibility, it is ideally suited for extrusion or co-extrusion onto polar substrates. All information provided by Merquinsa

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-PEARLCOAT-Activa-D118K-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-Activa-D118K-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 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	70	70	ASTM D2240
Tensile Strength, Yield	30.05 MPa	4359 psi	ASTM D412
Elongation at Break	615 %	615 %	ASTM D412
100% Modulus	0.00301 GPa	0.436 ksi	ASTM D412
300% Modulus	0.00601 GPa	0.872 ksi	ASTM D412
Tear Strength	45.0 kN/m	257 pli	Die C; ISO 34-1B
Abrasion	60	60	loss (mm <sup>3</sup> ); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	135 - 145 Å°C	275 - 293 Å°F	MQSA 111
Glass Transition Temp, Tg	-31.1 Å°C	-24.0 Å°F	DSC, 10Å°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	175 - 195 Å°C	347 - 383 Å°F	
Zone 2	180 - 200 Å°C	356 - 392 Å°F	
Zone 3			

Processing Properties	185 - 205 Â°C Metric	365 - 401 Â°F English	Comments
Zone 4	175 - 195 Â°C	347 - 383 Â°F	
Die Temperature	175 - 195 Â°C	347 - 383 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

## Contact Songhan Plastic Technology Co.,Ltd.

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