

## Lubrizol Advanced Materials Pearlthane® D91F88 Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP

### Material Notes:

Type: Pearlthane® D91F88 is an aliphatic-based thermoplastic polyurethane. Main Application : Extrusion Special features : Outstanding abrasion loss, excellent color stability upon weather exposure. High quality film and good transparency.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-Pearlthane-D91F88-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-D91F88-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ISO 868
Tensile Strength, Yield	25.99 MPa	3770 psi	ISO 527-2/5A/500
Elongation at Break	415 %	415 %	ISO 527-2/5A/500
50% Modulus	0.00600 GPa	0.870 ksi	ISO 527-2/5A/500
100% Modulus	0.005502 GPa	0.7980 ksi	ISO 527-2/5A/500
300% Modulus	0.0160 GPa	2.32 ksi	ISO 527-2/5A/500
Tear Strength	102 kN/m	582 pli	ISO 34-1B
Abrasion	35	35	[mm <sup>3</sup> ]; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	48.0 Â°C	118 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Zone 1	165 - 175 Â°C	329 - 347 Â°F	
Zone 2	175 - 185 Â°C	347 - 365 Â°F	
Zone 3	185 - 195 Â°C	365 - 383 Â°F	
Zone 4	190 - 200 Â°C	374 - 392 Â°F	
Adapter Temperature	190 - 200 Â°C	374 - 392 Â°F	5
Die Temperature	190 - 200 Â°C	374 - 392 Â°F	6

Processing Properties	190 - 200 °C Metric	374 - 392 °F English	TIP 7 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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