

## Covestro Desmopan® DP 9370A Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

Extrusion- and injection molding gradevery good hydrolysis and microbial resistancegood low-temperature flexibilityfree from plasticizershigh moisture vapor transmission rateApplicationbreathable filmsSealsmembranesFilmshard - soft systemsSports shoe solesPreprocessingMax. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Desmopan-DP-9370A-Polyurethane.php](http://www.lookpolymers.com/polymer_Covestro-Desmopan-DP-9370A-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	Melt
	1.06 g/cc	0.0383 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	3s; ISO 868
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-1/-2
Tensile Strength, Yield	25.0 MPa	3630 psi	parallel; ISO 527-3
	2.40 MPa	348 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	4.30 MPa	624 psi	ISO 527-1/-2
	@Strain 300 %	@Strain 300 %	
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2
Abrasion	69	69	mm <sup>3</sup> ; ISO 4649
Compression Set	22 %	22 %	ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	49 %	49 %	ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	Melt
Thermal Conductivity	0.122 W/m-K	0.847 BTU-in/hr-ft <sup>2</sup> -°F	Melt

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Ejection Temperature	50.0 °C	122 °F	

Descriptive Properties	Value	Comments
Availability	Europe	
	Near East/Africa	
	North America	
	South and Central America	
Eff. thermal diffusivity (m <sup>2</sup> /s)	8E-08	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China