# BASF Polyurethanes GmbH

# **Technical Data**

## Product Description

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, very good damping and resilience performance, heat resistance and improved cycle times.

Typical applications

(Automotive) e.g. sealings, stop dampers, cable jackets.

General			
Material Status	Commercial: Active		
Availability	Europe		
Features	<ul> <li>High Heat Resistance</li> </ul>	Resilient	
Uses	<ul> <li>Automotive Applications</li> </ul>	Cable Jacketing	Seals
Processing Method	Blow Molding	Extrusion	Injection Molding
Physical		Nominal Value Unit	Test Method
Density		1.17 g/cm³	ISO 1183/A
Mechanical		Nominal Value Unit	Test Method
Abrasion Loss		55.0 mm <sup>3</sup>	ISO 4649-A
Elastomers		Nominal Value Unit	Test Method
Tensile Stress			DIN 53504
20% Strain		0.850 MPa	
100% Strain		1.50 MPa	
300% Strain		2.00 MPa	
Tensile Stress			DIN 53504
Yield		35.0 MPa	
Yield <sup>2</sup>		20.0 MPa	
Tensile Elongation			DIN 53504
Break		1000 %	
Break <sup>2</sup>		1100 %	
Tear Strength <sup>3</sup>		40.0 kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr		25 %	
70°C, 24 hr		43 %	
100°C, 24 hr		60 %	
Impact		Nominal Value Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C		No Break	
23°C		No Break	
Hardness		Nominal Value Unit	Test Method
Shore Hardness (Shore A, 3 sec)		63	ISO 7619
Thermal		Nominal Value Unit	Test Method
Vicat Softening Temperature		70.0 °C	ISO 306/A120
Injection		Nominal Value Unit	
Processing (Melt) Temp		190 to 220 °C	
Mold Temperature		20 to 50 °C	
Extrusion		Nominal Value Unit	
Melt Temperature		180 to 230 °C	

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> after storage in water for 21 days at 80°C

<sup>3</sup> Method Bb, Angle (Nicked)



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## Where to Buy

### Supplier

BASF Polyurethanes GmbH , Germany Telephone: +49-5443-12-0 Web: http://www.polyurethanes.basf.eu/pu/solutions/en/

## Distributor

Channel Prime Alliance Telephone: 800-247-8038 Web: http://www.channelpa.com/ Availability: North America

### **Distrupol Ltd**

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country. Telephone: 08452003040 Web: http://www.distrupol.com/ Availability: Denmark, Finland, Ireland, Norway, Sweden, United Kingdom



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