Desmopan® DP 9370AU
Thermoplastic Polyurethane Elastomer (Polyether)
Bayer MaterialScience AG - PUR

Technical Data

Product Description
Extrusion- and injection molding grade; with special UV stabilizers; very good hydrolysis and microbial resistance; good low-temperature flexibility; free from plasticizers; high moisture vapor transmission rate; Application; breathable films; Films; Sports shoe soles; hard - soft systems

General
Material Status • Experimental: Active
Literature 1 • Technical Datasheet (English)
• Technical Datasheet (German)
UL Yellow Card 2 • E465093-101727508
Search for UL Yellow Card • Bayer MaterialScience AG - PUR
• Desmopan®
Availability • Africa & Middle East
• Asia Pacific
• Europe
Additive • UV Stabilizer
Features • High Moisture Vapor Transmission
• Hydrolysis Resistant
• Low Temperature Flexibility
• Microbe Resistant
Uses • Film
• Footwear
• Sporting Goods
RoHS Compliance • RoHS Compliant
Processing Method • Extrusion

Physical
Nominal Value Unit Test Method
Density 1060 kg/m³ ISO 1183 4

Mechanical
Nominal Value Unit Test Method
Tensile Stress 5 Break, 23°C 26.8 MPa DIN 53504
100% Strain, 23°C 2.90 MPa
300% Strain, 23°C 5.50 MPa
Tensile Strain 5 (Break, 23°C) 790 % DIN 53504
Abrasion Resistance (23°C) 69.0 mm³ ISO 4649
Tensile Storage Modulus -20°C 125 MPa ISO 6721-1,-4
20°C 11.0 MPa
60°C 9.00 MPa

Elastomers
Nominal Value Unit Test Method
Tear Strength 6 (23°C) 39 kN/m ISO 34-1
Compression Set
23°C, 72 hr 22 % ISO 815
70°C, 24 hr 49 %

Impact
Nominal Value Unit Test Method
Impact Resilience (23°C) 63 % ISO 4662

Hardness
Nominal Value Unit Test Method
Shore Hardness (Shore A, 3 sec) 70 ISO 868 4

Injection
Nominal Value Unit
Drying Temperature < 80.0 °C
Processing (Melt) Temp 190 to 210 °C
Mold Temperature 20.0 to 40.0 °C

Extrusion
Nominal Value Unit
Drying Temperature < 80.0 °C
Melt Temperature 175 to 210 °C
Notes

1 These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

2 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

3 Typical properties: these are not to be construed as specifications.

4 Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

5 200 mm/min

6 500 mm/min
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Where to Buy

Supplier
Bayer MaterialScience AG - PUR
Leverkusen, Germany
Telephone: +49-214-30-1
Web: http://www.bayermaterialscience.de/

Distributor
Please contact the supplier to find a distributor for Desmopan® DP 9370AU