

Desmopan® KU 2-8791

Bayer MaterialScience AG - Thermoplastic Polyurethane Elastomer

Wednesday, July 09, 2008

General Information

General

Material Status	• Commercial: Discontinued		
Availability	• Africa & Middle East	• Europe	
Features	• Good Moldability	• Hydrolysis Resistant	
Uses	• Engineered Applications	• Profiles	
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Film Extrusion • Injection Molding	• Profile Extrusion

ASTM and ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.0434 lb/in ³	1200 kg/m ³	ISO 1183 ²
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ³	570 lbf/in	100 kN/m	ISO 34-1

Additional Properties

Impact resilience, ISO 4662, Annealed: 36%
Tear propagation resistance, ISO 34-1, Annealed, 500 mm/min: 100 kN/m
Torsional storage modulus, ISO 6721-2, Annealed, -20°C: 95 MPa
Torsional storage modulus, ISO 6721-2, Annealed, 23°C: 22 MPa
Torsional storage modulus, ISO 6721-2, Annealed, 70°C: 14 Mpa

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	68.0 to 104 °F	20.0 to 40.0 °C
Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	356 to 410 °F	180 to 210 °C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
³ 20 in/min (500 mm/min)

