Desmopan 9370A GMP

TPU | Covestro Deutschland AG

Product Texts

- 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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Stress at 10% elongation	**0.6**	MPa	ISO 527
[C] Stress at 100% elongation	**2.9**	MPa	ISO 527
[C] Stress at 300% elongation	**5**	MPa	ISO 527
[C] Stress at break TPE	**26**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
Tensile Strength	**25.7**	MPa	ISO 37
Strain at break	**738**	%	ISO 37
[C] Compression set at 70 °C, 24h	**49**	%	ISO 815
[C] Tear strength	**40**	kN/m	ISO 34-1
[C] Abrasion resistance	**70**	mm³	ISO 4649
[C] Shore A hardness	**70**	-	ISO 7619-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1060**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**190 - 210**	°C	-
Mold temperature	**20 - 40**	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	**175 - 210**	°C	-

Characteristics

Processing

Injection Molding, Film Extrusion, Other Extrusion

Applications

Sports Equipment

Chemical Resistance

Hydrolytically Stable

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Certifications

Food contact, Food approval 1935/2004/EC, Food approval 10/2011, Food approval FDA 21 CFR, Drinking water contact, Drinking water contact DVGW W270

Other text information

Injection molding

PREPROCESSING
Max. water content: 0.05 %
Max. drying temperature: 80 °C

Drying time:
Dry air dryer 1-2 h

PROCESSING
Melt temperature: 190-210 °C
Mold temperature: 20-40 °C

Other extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Dry air dryer	1-2 h
Processing	
Melt temperature	175-210 °C