Desmopan 9370A GMP

TPU

Covestro Deutschland AG

- 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			
Tensile Stress (10% Elongation)	0.6	MPa	ISO 527
Stress at 100% Elongation	2.9	MPa	ISO 527
Stress at 300% Elongation	5	MPa	ISO 527
Stress at Break TPE	26	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70°C	49	%	ISO 815
Tear strength	40	kN/m	ISO 34-1
Abrasion resistance	70	mm³	ISO 4649
Shore Hardness A (15s)	70	-	ISO 868
Tensile Strength	25.7	MPa	ISO 37
Strain at Break	738	%	ISO 37

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1060	kg/m³	ISO 1183

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

Chemical Resistance

Hydrolysis

Certifications

Food approval, Food approval 1935/2004/EC, Food approval 10/2011, Food Contact (FDA), Water contact, Water contact DVGW W270

Applications

Sports Equipment

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

Disclaimer

Liability Exclusion
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