

Desmopan® 3385A

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

Extrusion- and injection molding grade; good wear resistance; short cycle times; high melt stability; Application; hard - soft systems; Hoses, non-reinforced; Profiles; Injection molded engineering parts

General Information	
Features	Fast Molding Cycle
	Good Wear Resistance
	High Melt Stability
Uses	Engineering Parts
	Hose
	Profiles
RoHS Compliance	RoHS Compliant
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1200	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	85		
Shore D, 15 sec	33		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			
Break, 23°C	52.0	MPa	DIN 53504
10% Strain, 23°C	2.00	MPa	ISO 527-3
50% Strain, 23°C	4.70	MPa	ISO 527-3
100% Strain, 23°C	5.80	MPa	DIN 53504
300% Strain, 23°C	16.6	MPa	DIN 53504
Tensile Strain ⁴ (Break, 23°C)	530	%	DIN 53504
Abrasion Resistance (23°C)	25.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	84.0	MPa	
20°C	28.0	MPa	
60°C	21.0	MPa	
Impact Resilience (23°C)	50	%	ISO 4662

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	70	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	15	%	
70°C, 24 hr	42	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	20.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Melt Temperature	175 to 205	°C	
NOTE			

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|----|---|
| 1. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 2. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 3. | 200 mm/min |
| 4. | 200 mm/min |
| 5. | 500 mm/min |

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