

Desmopan® 385 E

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

Extrusion- and injection molding grade; high mechanical strength; Application; Films; Hoses, non-reinforced; Screenpacks; Technical parts; hard to soft systems

General Information	
UL YellowCard	E465093-101727499
Features	High Strength
Uses	Engineering Parts
	Film
	Hose
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	86		
Shore D, 15 sec	32		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	52.0	MPa	
10% Strain, 23°C	2.10	MPa	
50% Strain, 23°C	4.70	MPa	
100% Strain, 23°C	5.80	MPa	
300% Strain, 23°C	16.4	MPa	
Tensile Strain ⁴ (Break, 23°C)	550	%	DIN 53504
Abrasion Resistance (23°C)	30.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	186	MPa	
20°C	51.0	MPa	
60°C	37.0	MPa	
Impact Resilience	42	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	70	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	25	%
70°C, 24 hr	50	%
Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0 to 40.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Melt Temperature	200 to 220	°C
NOTE		
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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

