

Desmopan® DP 9855DU

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

injection molding grade; very good hydrolysis and microbial resistance; very good low-temperature impact strength; opaque; Cylindrical pellets;
Application; Boot shells; Technical parts

General Information			
Features	Hydrolysis Resistant		
	Low Temperature Impact Resistance		
	Microbe Resistant		
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.15	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	98		
Shore D, 23°C	56		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	50.0	MPa	
10% Strain,23°C	10.0	MPa	
50% Strain,23°C	17.0	MPa	
100% Strain,23°C	20.0	MPa	
300% Strain,23°C	35.0	MPa	
Tensile Strain ² (Break, 23°C)	420	%	DIN 53504
Flexural Modulus ³ (23°C)	185	MPa	ISO 178
Abrasion Resistance (23°C)	23.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	971	MPa	
20°C	370	MPa	
60°C	135	MPa	
Impact Resilience (23°C)	47	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (23°C)	130	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	31	%
70°C, 24 hr	42	%
Injection	Nominal Value	Unit
Drying Temperature	< 110	°C
Processing (Melt) Temp	220 to 235	°C
Mold Temperature	40.0 to 60.0	°C
NOTE		
1.	200 mm/min	
2.	200 mm/min	
3.	2.0 mm/min	
4.	500 mm/min	

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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

