

Desmopan® 786 S

Thermoplastic Polyurethane Elastomer

Covestro - PUR

Message:

injection molding grade; very good hydrolysis and microbial resistance; high mechanical strength; good low-temperature flexibility; Application; Toys; Technical parts

General Information			
Features	High Strength		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Engineering Parts		
	Toys		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1150	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	33		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break	38.0	MPa	
10% Strain	2.00	MPa	
50% Strain	5.30	MPa	
100% Strain	7.20	MPa	
300% Strain	13.3	MPa	
Tensile Strain ⁴ (Break)	590	%	DIN 53504
Abrasion Resistance (23°C)	40.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	400	MPa	
20°C	35.0	MPa	
60°C	20.0	MPa	
Impact Resilience	32	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	60	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	30	%
70°C, 24 hr	65	%
Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0 to 40.0	°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	

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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

