

Pearlthane® D11H92S

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Type : Pearlthane® D11H92S is a polycaprolactone copolyester-based thermoplastic polyurethane.

Main Application : Injection Moulding

Special Features : Excellent flow and mechanical properties and an outstanding low compression set value and high temperature resistance.

General Information			
Features	Fast Molding Cycle		
	High Flow		
	High Heat Resistance		
	Low Compression Set		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Colorless		
	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec	92		
Shore D, 1 sec	46		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	46.0	MPa	ISO 527-2/5A
Tensile Strain (Break, 500 mm)	460	%	ISO 527-2/5A
Abrasion Resistance	20.0	mm³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-2
100% Strain, 500 mm	10.0	MPa	
300% Strain, 500 mm	21.0	MPa	
Tear Strength ²	130	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			ISO 306/A50
-- ³	133	°C	
-- ⁴	139	°C	
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	

Drying Time	3.0	hr
Rear Temperature	190	°C
Middle Temperature	195	°C
Front Temperature	195	°C
Nozzle Temperature	200	°C
Mold Temperature	40.0	°C

NOTE

1. Type 5
2. Method Ba, Angle (Unnicked)
3. Unannealed
4. Annealed

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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



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