

Elastollan® SP 9322

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester-Polyurethane Compound with excellent mechanical properties and chemical resistance, outstanding wear resistance, high tear and tensile strength, good damping characteristic and high resilience performance, phthalatfree.

General Information			
Features	High tensile strength		
	Good tear strength		
	Good chemical resistance		
	Good wear resistance		
	Elastic		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	52		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	120	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	0.700	MPa	DIN 53504-S2
100% strain	1.80	MPa	DIN 53504-S2
300% strain	4.60	MPa	DIN 53504-S2
Tensile Strength	25.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	900	%	DIN 53504-S2
Tear Strength ¹	35	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	ISO 815
70°C, 24 hr	38	%	ISO 815
100°C, 24 hr	53	%	ISO 815
Additional Information			
The plaques are manufactured by injection moulding from pre-dried granules (water content less 0,02%). Test paques are aged 20 hrs at 100°C.Specimens are cut from test plaques. The test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	

Rear Temperature	180 - 200	°C
Middle Temperature	185 - 210	°C
Front Temperature	190 - 210	°C
Processing (Melt) Temp	190 - 210	°C
Mold Temperature	20.0 - 40.0	°C
Injection Rate	Slow	

NOTE

1. Method B, right-angle specimen (cut)

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