

Pearlthane® 11T95P

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlthane® 11T95P is a polycaprolactone copolyester based TPU, supplied in form of translucent, colourless pellets, combining hardness with excellent mechanical properties. A special additive package assures excellent paintability of injection moulded parts. Pearlthane® 11T95P is recommended for injection moulding applications, such as: seals, wheels and castors, ear-tags, shoe soles and a variety of high performance technical parts.

General Information			
Features	Sprayable		
	Medium hardness		
Uses	Wheels		
	Engineering accessories		
	Seals		
	Molded Ear Label		
	Footwear		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Translucent		
	Colorless		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
20°C	1.19	g/cm ³	ISO 2781
Moisture Content		%	Internal method
Abrasion Loss	25.0	mm ³	ISO 4649
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	95		ASTM D2240, ISO 868
Shaw D	49		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 527
100% strain	12.0	MPa	ASTM D412, ISO 527
300% strain	25.0	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	40.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	500	%	ASTM D412, ISO 527

Tear Strength			
-- ¹	135	kN/m	ASTM D624
--	140	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 70 hr	32	%	ASTM D395B
70°C, 22 hr	42	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	-38.0	°C	ISO 11357-2
Melting Temperature ³	195 - 205	°C	Internal method
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	1.0 - 2.0	hr	
Rear Temperature	195	°C	
Middle Temperature	200	°C	
Front Temperature	210	°C	
Nozzle Temperature	210	°C	
Mold Temperature	35.0	°C	
Injection instructions			
Closing force: : 30 tonsScrew diameter: : 30 mmMaximum hydraulic pressure: : 210 barMould: : Plaque120x120x2 mmL/D ratio: : 23			
NOTE			
1.	C mould		
2.	10°C /min		
3.	Temperature at which MFI = 10 g/10 min @ 21.6 kg		

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