

Texin® 950LW

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Texin 950LW resin is an aromatic polyether-based thermoplastic polyurethane. It can be processed by injection molding, extrusion or blow molding.

General Information			
Features	Impact resistance, good		
	Good flexibility		
	Good wear resistance		
	Good toughness		
	Compliance of Food Exposure		
	Hydrolysis stability		
Uses	Washer		
	Pipe		
	Pipe fittings		
	Connector		
	Footwear		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
Appearance	Natural color		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 2.54mm	0.80	%	ASTM D955
Transverse flow: 2.54mm	0.80	%	ASTM D955
Vertical flow direction: 2.54mm	0.80	%	ISO 2577
Flow direction: 2.54mm	0.80	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C)	114	MPa	ASTM D790, ISO 178
Taber Abrasion Resistance			

1000 Cycles, 1000g, H-18 wheel	75.0	mg	ISO 4649
1000 Cycles, 1000g, H-18 wheel	75.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
100% strain	14.5	MPa	ASTM D412, ISO 37
300% strain	30.3	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	49.7	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	460	%	ASTM D412, ISO 37
Tear Strength			
-- ¹	131	kN/m	ASTM D624
--	130	kN/m	ISO 34-1
Compression Set ²			ASTM D395B, ISO 815
23°C, 22 hr	15	%	ASTM D395B, ISO 815
70°C, 22 hr	40	%	ASTM D395B, ISO 815
Bayshore Resilience	35	%	ASTM D2632
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ISO 306/50, ASTM D1525 ³
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	93.0 - 104	°C	
Drying Time - Desiccant Dryer	2.0	hr	
Suggested Max Moisture	< 0.030	%	
Suggested Max Regrind	20	%	
Rear Temperature	196 - 207	°C	
Middle Temperature	199 - 210	°C	
Front Temperature	199 - 210	°C	
Nozzle Temperature	202 - 213	°C	
Processing (Melt) Temp	202 - 216	°C	
Mold Temperature	15.0 - 40.0	°C	
Injection Pressure	41.4 - 103	MPa	
Injection Rate	Moderate		
Back Pressure	< 5.52	MPa	
Screw Speed	40 - 80	rpm	
Cushion	< 3.18	mm	
Injection instructions			
Hold Pressure: 60 to 80% of Injection Pressure			
Extrusion	Nominal Value	Unit	
Drying Temperature	93.0 - 104	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	182 - 196	°C	
Cylinder Zone 2 Temp.	193 - 207	°C	
Cylinder Zone 3 Temp.	193 - 207	°C	
Melt Temperature	199 - 213	°C	

Die Temperature	193 - 213	°C
NOTE		
1.	C mould	
2.	Post-cured 16 hr at 230°F	
3.	速率 A (50°C/h)	

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