

Elastollan® WY1157

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® WY1157 exhibits excellent toughness, high and low temperature properties, hydrolytic stability and burst pressures for hose and tube applications. Elastollan® WY1157 is supplied uncolored in pellet form.

General Information	
Features	Good Toughness
	High Heat Resistance
	Hydrolytically Stable
	Low Temperature Resistant
Uses	Hose
	Tubing
Appearance	Colorless
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	124	MPa	ASTM D412
Flexural Modulus (Injection Molded)	152	MPa	ASTM D790
Taber Abrasion Resistance	150	mg	ASTM D1044
Abrasion - DIN	80	mm ³	DIN 53516
Softening Point - DMA	107	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	22.8	MPa	
300% Strain	28.3	MPa	
Tensile Strength	34.5	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength ¹	161	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	20	%	
70°C, 22 hr	55	%	

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-33.0	°C	Internal Method
Vicat Softening Temperature	135	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	210 to 230	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	210 to 230	°C	
Nozzle Temperature	220 to 240	°C	
NOTE			

1. Die C

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