

Elastollan® WY1158

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® WY1158 exhibits excellent toughness, high and low temperature properties, hydrolytic stability and burst pressures for hose and tube applications. Elastollan® WY1158 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	1.13	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	55.8	MPa	ASTM D412
Flexural Modulus (Injection Molded)	61.4	MPa	ASTM D790
Taber Abrasion Resistance	130	mg	ASTM D1044
Abrasion - DIN	70	mm ³	DIN 53516
Softening Point - DMA	107	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	13.8	MPa	
300% Strain	19.3	MPa	
Tensile Strength	27.6	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength ¹	117	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	10	%	
70°C, 22 hr	45	%	

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-41.0	°C	Internal Method
Vicat Softening Temperature	125	°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	190 to 220	°C	
Middle Temperature	190 to 220	°C	
Front Temperature	190 to 220	°C	
Nozzle Temperature	210 to 225	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 3.0	hr	
Cylinder Zone 1 Temp.	170 to 210	°C	
Cylinder Zone 3 Temp.	170 to 210	°C	
Cylinder Zone 5 Temp.	170 to 210	°C	
Adapter Temperature	200 to 220	°C	
Die Temperature	195 to 215	°C	
NOTE			
1.	Die C		

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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

