

## DIAMETERS

- 1.50in/38mm
- 2.50in/64mm

# POLYFLEX®

All synthetic, rack and reel fire hose for interior use

- » Strong, compact, light in weight and will fit on most hose storage devices
- » Unique Mertex® lining yields an extremely low friction loss, for maximum flow and superior adhesion for long life
- » Premium all synthetic single jacket
- » Factory Mutual and UL approved and can be FM and / or UL labeled in the sizes specified\*
- » Resistant to most chemicals, petrol products, ozone and U.V. exposure, hydrolysis, and rot and mildew
- » Remains flexible to -65° F (-55° C)
- » Meets or exceeds all performance requirements of NFPA 1961, Underwriters Laboratories and Factory Mutual

Hose Spec.	Trade Size		Bowl Size		Weight Un-coupled 100' (30.5m)		Coil Diameter 100' (30.5m)		Service Pressure		Proof Pressure		Burst Pressure	
	In.	mm	In.	mm	Lbs	Kg	In.	Cm.	PSI	kPa	PSI	kPa	PSI	kPa
503	1.5*	38*	1 11/16	43	10.2	4.6	11.5	29.2	250	1 725	500	3 450	750	5 175
507	2.5*	64*	2 3/4	70	20.6	9.4	14.5	36.8	250	1 725	500	3 450	750	5 175



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# HOW TO SPECIFY

## POLYFLEX<sup>®</sup>

**THE HOSE SHALL BE SINGLE JACKET  
WITH A SERVICE TEST PRESSURE OF  
250 PSI / 1725 KPA.**

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### **JACKETS**

The hose jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions, to provide maximum strength to weight ratio and shall have a minimum filler (weft) yarns of 10 per inch (394 per Meter).

### **LINING**

The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway. Fire hose made using adhesives of any type do not meet this specification. The lining shall be approved for use with potable water.

### **ADHESION**

The adhesion shall be such that the rate of separation of a 1 1/2" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

### **COLD TEMPERATURE FLEXIBILITY**

The hose must remain flexible to -65°F (-55°C).

### **SERVICE, TEST, BURST PRESSURES**

Minimum service, test and burst pressures shall be as detailed in the specification table on the previous page.

### **KINK TEST**

A full length will withstand a hydrostatic pressure of 600 psi / 4140 kPa while kinked.

### **WEIGHT**

Each length of fire hose shall not weigh more than indicated in the specification table.

### **COUPLING SPECIFICATIONS**

Couplings shall be in conformance with the current NFPA standard and made of extruded aluminum, hard coated a minimum of .002" thick.

They shall be manufactured in North America and permanently labeled with country of origin. They shall be expansion ring type.

### **MANUFACTURE**

Both hose and couplings must be manufactured in North America and be NAFTA compliant.

### **STANDARDS**

Must be Factory Mutual and UL approved and can be FM and / or UL labeled in the sizes specified\*