Hapflex™ 871-4

Thermoplastic

Hapco Inc.

Message:

HAPFLEX 700 & 800 products are a series of low hazard, colorless, high strength, elastomers available in Shore hardnesses from 65A to 72D. HAPFLEX 700 & 800 products exhibit high tensile strength, high tear strength, and excellent elongation. All HAPFLEX 700 & 800 products cure at room temperature and can be accelerated with heat.
Another key attribute of the 700 & 800 SERIES is that the base color of all components is colorless. For user convenience, HAPCO has designed this series in 2 speeds so the user can "customize" production rates and cure times. The fast and regular versions can be blended to user customize the gel time and cure time.
HAPFLEX 700 & 800 SERIES can be used for mechanical, electrical, and mechanical/electrical applications. In addition, HAPFLEX 700 & 800 products show superior water immersion properties and superior adhesion when used in combination with Hapco's one part PRIMER 200.

General Information	
Features	Electrically Insulating
	Good Adhesion
	Good Tear Strength
	High Elongation
	High Strength
	High Tensile Strength
	Low to No Water Absorption
Appearance	Clear/Transparent
Forms	Liquid
Processing Method	Blow Molding
	Casting
	Rotational Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.25 to 0.45	%	ASTM D2566
Weight - per cubic inch	17	g	
Gel Time [1] (25°C)	4.0	min	ASTM D2971
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	41.4	MPa	ASTM D638
Tensile Strength	25.5	MPa	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Modulus	95.8	MPa	ASTM D790
Flexural Strength	16.2	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**

Tear Strength [2]	109	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	340	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	54.0	°C	
1.8 MPa, Unannealed	40.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 32, Mix Ratio by Volume: 32		
Thermoset Mix Viscosity (25°C)	4300	cP	ASTM D4878
Demold Time (21°C)	60 to 180	min	Internal Method
NOTE			
1.	100 g		
2.	Die C		

Recommended distributors for this material

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