

Hapflex™ 650 FR

Thermoplastic

Hapco Inc.

Message:

The HAPFLEX FR Series products are flame retardant and are available in a 65A, 80A and 50D hardness.They can be used in both Liquid Molding applications (i.e. parts, gaskets, coatings) and electrical insulation applications (i.e. potting and encapsulating). All of these products have a rating of 94 V-0.

General Information	
Features	Fast Cure
	Flame Retardant
	Good Abrasion Resistance
	Good Flexibility
	Good Toughness
	Low Shrinkage
	Low Viscosity
	Moisture Resistant
	Shock Resistant
Uses	Gaskets
	Liners
	Molds/Dies/Tools
	Patterns
	Rollers
Appearance	Black
Forms	Liquid
Processing Method	Casting
	Machining
	Thermoforming
	Vacuum Casting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D2566
Weight - per cubic inch	18	g	
Gel Time ¹ (25°C)	25.0	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	165	MPa	ASTM D638

Tensile Strength	13.1	MPa	ASTM D638
Tensile Elongation (Break)	240	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	94.6	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	500	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
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: 40, Mix Ratio by Volume: 40		
Thermoset Mix Viscosity (25°C)	870	cP	ASTM D4878
Demold Time (21°C)	480 to 720	min	Internal Method
NOTE			
1.	100 g		
2.	Die C		

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