Hapflex[™] 663-3

Thermoplastic

Hapco Inc.

Message:

The Hapflex 500 series offers a full range of soft durometers, from 45 - 95 Shore A, while the Hapflex 600 series yields harder durometers on the Shore D scale ranging from 50 - 70 Shore D. All are relatively fast, room curing, flexible systems that do not require post curing, but can be accelerated with moderate heat for faster curing. Most Hapflex 500 & 600 products are offered in 2 speeds: a standard 30-45 minute working time, and a 3-6 minute working time for fast demold.

The Hapflex elastomers are low viscosity, making them easy to handle and pour, yet still provide precise duplications of surface details surface finishes. In addition, the Hapflex elastomers are virtually shock resistant and unbreakable, making them exceptionally well suited for permanent molds, parts or master patterns that will not crack or chip during use or storage. A major advantage is the superior abrasion resistance properties of the Hapflex elastomers.

Precision tracing patterns, roll coverings, fixtures, flexible parts, forming dies, bending tools, and a variety of foundry applications are just a few examples of Hapflex applications.

General Information					
Features	Fast Cure				
	Good Abrasion Resistance				
	Good Flexibility				
	Good Toughness				
	Low Shrinkage				
	Low Viscosity Moisture Resistant				
Uses	Gaskets				
	Liners				
	Molds/Dies/Tools				
	Patterns				
	Rollers				
Appearance	Red				
Forms	Liquid				
Processing Method	Casting				
	Machining				
	Thermoforming				
	Vacuum Casting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.04	g/cm³	ASTM D4669		
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D2566		
Weight - per cubic inch	17	g			
Gel Time ¹ (25°C)	3.0	min	ASTM D2971		

Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	60		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	138	MPa	ASTM D638	
Tensile Strength	19.3	MPa	ASTM D638	
Tensile Elongation (Break)	230	%	ASTM D638	
Flexural Modulus	170	MPa	ASTM D790	
Flexural Strength	11.4	MPa	ASTM D790	
Elastomers	Nominal Value	Unit	Test Method	
Tear Strength ²	73.6	kN/m	ASTM D624	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	120	J/m	ASTM D256	
Unnotched Izod Impact	No Break		ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, Unannealed	96.0	°C		
1.8 MPa, Unannealed	63.0	°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: 60, Mix Ratio by Volume: 55			
Thermoset Mix Viscosity (25°C)	1560	cP	ASTM D4878	
Demold Time (21°C)	20 to 35	min	Internal Method	
NOTE				
1.	100 g			
2.	Die C			

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