Hapflex[™] 581

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.

Available in Flame Retardant

General Information		
Features	Fast Cure	
	Good Abrasion Resistance	
	Good Flexibility	
	Good Toughness	
	Low Shrinkage	
	Low Viscosity	
	Moisture Resistant	
	Shock Resistant	
Uses	Gaskets	
	Liners	
	Molds/Dies/Tools	
	Patterns	
	Rollers	
Appearance	Clear Amber	
Forms	Liquid	
Processing Method	Casting	
	Machining	
	Thermoforming	
	Vacuum Casting	
Physical	Nominal Value	Test Method

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D2566
Weight - per cubic inch	17	g	

Gel Time ¹ (25°C)	40.0	min	ASTM D2971	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A)	83		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	15.2	MPa	ASTM D638	
Tensile Strength	10.6	MPa	ASTM D638	
Tensile Elongation (Break)	480	%	ASTM D638	
Elastomers	Nominal Value	Unit	Test Method	
Tear Strength ²	48.2	kN/m	ASTM D624	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	No Break		ASTM D256	
Unnotched Izod Impact	No Break		ASTM D256	
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: 74, Mix Ratio by Volume: 74			
Thermoset Mix Viscosity (25°C)	1120	сР	ASTM D4878	
Demold Time (21°C)	420 to 600	min	Internal Method	
NOTE				
1.	100 g			
2.	Die C			

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