

Fluorosilicone Rubber G10 Series

Features:

- GOOD MECHANICAL PROPERTIES
- EXCELLENT SOLVENT/FLUID RESISTANCE
- EASILY PIGMENTED BLENDABLE
- HIGH RESILIENCE
- LOW COMPRESSION SET
- RETAINS PROPERTIES OVER A WIDE TEMPERATURE RANGE FROM -60°C~200°C

Typical Properties:

Item	Test Standard	Grade/Test Value					
		DHFS-G1040	DHFS-G1050	DHFS-G1060	DHFS-G1070	DHFS-G1080	
Hardness, Shore A	ASTM D2240	40+/-5	50+/-5	60+/-5	70+/-5	80+/-5	
Tensile Strength, Mpa, Die C	ASTM D412	≥9	≥9	≥9	≥8	≥7	
Elongation at Break, %, Die C	ASTM D412	≥350	≥300	≥250	≥200	≥150	
Tear Strength, KN/m, Die B	ASTM D624	≥20	≥20	≥20	≥15	≥15	
Compression Set, % 177°C @22h, type B	ASTM D395	≤10	≤10	≤10	≤10	≤10	
Vertical Resilience, %	ASTM D2632	25	25	25	25	25	
Fuel C resistance, 23°C@70h	ΔV %	ASTM D471	≤20	≤20	≤20	≤20	≤20
	ΔTB %	ASTM D471	<-60	<-60	<-60	<-60	<-60
	ΔEB%	ASTM D471	<-50	<-50	<-50	<-50	<-50
Aging by hot air, 225°C@70h	ΔTB %	ASTM D573	<-45	<-45	<-45	<-45	<-45
	ΔEB%	ASTM D573	<-45	<-45	<-45	<-45	<-45

* Curing agent: DBPH

* Press Cure: 170°C@10min, Post Cure: 200°C@4h

Remarks: The data in the publication is based on the test performed at Dowhon Laboratory facilities or the other facilities that have been qualified by us, the data isn't for specification. Your results may vary due to differences in test types and conditions.

Processing Advice:

Various organic peroxides will vulcanize this fluorosilicone compounds. Fabricators should make their selection of curing agents on the basis of method of fabrication, desired properties, and safety considerations. They are mixed into the rubber, if necessary please contact us.

The optimum cure cycle will depend on the method of processing used and the physical dimensions of the vulcanized product. Specific applications will require the use of air oven post cures.

Package information:

Packed by plastic bags and hardened paperboard boxes. Each box contains 2 bags with 10kg per bag.

Storage:

This fluorosilicone rubber compounds maintains good status within 12 months when the original package is kept unopened.