Dow Corning® C6-350LH

Silicone

Dow Corning Corporation

Message:

High Consistency Rubber with platinum cure Raw materials with enhanced physical properties for healthcare industry fabrication
APPLICATIONS
DOW Corning Class VI Elastomer C6-350LH is a platinum-catalyzed heat-cured silicone High Consistency Rubber for part fabrication, extrusion and medical devices, including those intended for implantation in humans for up to 29 days.
This material exhibits enhanced physical properties and may be particularly beneficial for fabricating devices and products where high resilience (low hysteresis loss) is important.
DESCRIPTION
DOW CORNING C6-350LH Elastomer, Parts A & B is a two-part platinum-catalyzed silicone elastomer. It is supplied as a two-part kit (Part A & B), equal portions of which must be thoroughly blended together prior to use. The elastomer is thermally cured via an addition-cure (platinum-catalyzed) reaction. When blended and cured as indicated, the resulting elastomer consists of crosslinked dimethyl and methyl-vinyl siloxane copolymers and reinforcing silica.
DOW CORNING C6-350LH Elastomer differs from our conventional high consistency rubber (HCR) products in that it exhibits enhanced physical properties. In particular, it exhibits lower hysteresis losses (more resiliency) compared to other platinum-catalyzed HCRs, and a reduction in crack growth propagation.
The elastomer can normally be used without any post-cure, although if necessary, this may be employed to stabilize final properties. Furthermore, the elastomer is heat stable up to 204°C (399°F), can be autoclaved, and exhibits high gas permeability compared with most thermoset elastomers and thermoplastics.

General Information	
Features	High Gas Permeability
	No frost
	Good coloring
	High pressure heating resistance
	Elastic
Uses	Medical/nursing supplies
Agency Ratings	ISO 10993-Part I
	USP Class VI

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.7	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	49		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	2.21	MPa	ASTM D412
Tensile Strength	8.84	MPa	ASTM D412
Tensile Elongation (Break)	730	%	ASTM D412
Tear Strength [1]	37.8	kN/m	ASTM D624
Compression Set	60	%	ASTM D395
NOTE			

1.	B mould

Recommended distributors for this material

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