Technical Data Sheet

SILASTIC™ RBB 2001-65 BLK Silicone Rubber Compound

70 Durometer, general purpose high consistency silicone rubber compound (uncatalyst)

Features & Benefits

- Good extrusion characteristics
- Serviceable over wide temperature range

Applications

- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Formulation 1	Unit	Result
SILASTIC™ RBB 2001-65 BLK Silicone Rubber Compound	parts	100
V Catalyst, 50% Active	parts	1

Test[1]	Property[2]	Unit	Result
ASTM D2240	Hardness, Shore A	point	73
ASTM D792	Specific Gravity		1.20
ASTM D412	Tensile Strength	MPa	10.4
ASTM D412	Elongation at Break	%	303
ASTM D624 DIE B	Tear Strength	KN/M	17

Formulation 2	Unit	Result
SILASTIC™ RBB 2001-65 BLK Silicone Rubber Compound	parts	100
T Catalyst, 50% Active	parts	1.5

1. ASTM: American Society for Testing and Materials.
2. Properties obtained on 2 mm thick slabs: press cured 10 minutes at 170°C, post cured for 4 hours at 200°C.

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Typical Properties (Cont.)

Test[3]	Property[4]	Unit	Result
GB/T 531.1	Hardness, Shore A	point	67
GB/T 533	Density	g/cm^3	1.21
GB/T 528	Tensile Strength	MPa	10.0
GB/T 528	Elongation at Break	%	414
GB/T 7759.1	Compression Set[5], 175°C×22 hrs×25%	%	48
GB/T 7762	Ozone Resistance, 50×10^{-8}×40°C×70 hrs, Stretch 20%		No crack
GB/T 1682	Brittle Temperature, -50°C×3 min		No fracture
	Heat aged 70 hours at 200°C		
GB/T 531.1	Change in Hardness, Shore A	point	+3
GB/T 528	Change in Tensile Strength	%	-8
GB/T 528	Change in Elongation at Break	%	-8
	Oil resistance properties: IRM 903 resistant 150°C×70 hrs		
GB/T 1690	Volume Change Rate	%	+47

3. GB/T: China National Standards.
4. Properties obtained on 2 mm thick slabs: press cured 10 minutes at 120°C, post cured for 4 hours at 200°C.
5. Properties obtained on 12 mm thick sample: press cured 15 minutes at 120°C, post cured for 4 hours at 200°C.

How to Use

Vulcanization

SILASTIC™ RBB 2001-65 BLK Silicone Rubber Compound required the addition of a vulcanizing agent. T-catalyst (2,4-dichlorobenzoyl peroxide) is recommended for hot air vulcanization. V catalyst (2,5-bis[tert-butylperoxy]-2,5-dimethylhexane) is recommended for molding.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

Product should be stored at or below 50°C (122°F) in original, unopened containers. This product has a usable life of 720 days from the date of production.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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