

BLUESIL ADD 703

Description	BLUESIL ADD 703 is a cream-coloured paste. It is a heat stability additive that is particularly effective for heat curing silicone elastomers. It enables protection of cured elastomers up to 300°C.
Examples of applications	BLUESIL ADD 703 is exclusively intended for industrial applications requiring high heat stability.
Key benefits	Please consult your local ELKEM SILICONES sales office.

Typical properties

1. Physical properties

Properties	BLUESIL ADD 703
Colour	Cream-coloured paste
Specific gravity (g/cm³)	1.27

For example, the following data shows the mechanical characteristics of MF135 U and MF160 U with **BLUESIL ADD 703** under various thermal ageing conditions.

These properties are obtained after the addition of 2,4 dichlorobenzoyl peroxide with 50% active ingredients (1.25 p peroxide E with 1.5 p **BLUESIL ADD 703**, curing for 8 minutes at 115°C and after post-curing for 4 hours at 200°C).

1.1 Properties after post-curing for 4 h at 200°C

Properties	MF 135 U	MF 160 U
Shore A hardness	38	60
Tensile strength (MPa, approx.)	6.6	10.4
Elongation at break (% , approx.)	500	412
Tear strength (ASTM 624A)	13	19
Resilience (% , approx.)	49	56

1.2 Properties after thermal ageing for 7 and 10 days at 275°C

7 days at 275°C	MF 135 U	MF 160 U
Shore A hardness	49	72
Tensile strength (MPa, approx.)	6	6
Elongation at break (% , approx.)	310	191

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use	BLUESIL ADD 703 is added to the heat curing elastomer on the mill. A dose of 1.5 % by weight relative to the HCR master batch gives a very distinct improvement in the silicone elastomer heat stability for temperatures of 275°C and 300°C. Comment: For transparent HCR blends, BLUESIL ADD 703 may cause slight opacification.
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.

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Packaging	<ul style="list-style-type: none">• BLUESIL ADD 703 is available in<ul style="list-style-type: none">○ Drum of 25 KG (55.13 LB)
Storage and shelf life	When stored in its original packaging: BLUESIL ADD 703 may be stored at temperatures between -5°C / 23°F and 40°C / 104°F for up to 18 months from its date of manufacturing. Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
Safety	Please consult the Safety Data Sheet of: BLUESIL ADD 703

Visit our website www.elkem.com/silicones/

Warning to the users

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