

BLUESILTM
MF 360 U**High Tear Strength**

Description Silicone Master-Batch, vulcanizing after heating following addition of a vulcanizing agent (chosen according to the transformation procedure).

Examples of applications Moulding, injection, extrusion of articles having good mechanical properties.

Advantages

- Slight replastifying.
- Easy processability.
- Short post-curing.
- Very good tear resistance.
- High stability up to 250°C.
- Highly transparent.
- Large possibilities of blending with other "Mix and Fix" masterbatches.
- Bright colours easily obtained with colour bases for silicone heat cure elastomers from Bluestar Silicones.

Characteristics

Type (in accordance with AFNOR T 40002) MVQ
 Density at 25°C, approx 1.16
 Natural colour Colourless, transparent

Properties after working:

- After addition of 1.25 % of 2,4-dichlorobenzoyl peroxide, (50% active ingredients), vulcanization for 8 min. at 115°C **(1)**
- After addition of 0.6% of 2-5 bis (tertiobutylperoxy), 2,5 dimethyl hexane at 75%, and vulcanization for 10 min. at 170°C **(2)**

1. Mechanical properties**1.1 Properties without post-curing**

	(1)	(2)
Shore A hardness, approx.	60	62
Tensile strength, MPa, approx.	9.1	10
Secant modulus at 100% elongation. MPa, approx	2.2	2.1
Elongation at break, % approx.	560	640
Tear strength, kN/m, approx	38	39
Rebound resilience, (8 mm), % approx.	45	45
Linear shrinkage, % approx.	2.5	3.6

1.2 Properties after post-curing for 4 hours at 200°C

Shore A hardness, approx.	62	65
Tensile strength, MPa, approx.	9	10
Elongation at break, % approx.	430	510
Secant modulus at 100% elongation, MPa, approx	2.6	3
Tear strength, kN/m, approx	35	35
Compression set (22h/177°C/25%), %, approx	48	38
Rebound resilience, % approx.	47	48
Linear shrinkage, % approx.	3.4	4.3

BLUESILTM MF 360 U**Characteristics (cont')****2. Heat stability***2.1 Properties after ageing 7 days at 177°C*

Shore A hardness, approx.	67	73
Tensile strength, MPa, approx.	9	9.4
Elongation at break, % approx.	340	320
Tear strength, kN/m, approx	25	19

2.2 Properties after ageing 3 days at 200 °C

Shore A hardness, approx.	69	73
Tensile strength, MPa, approx.	8.8	8.2
Elongation at break, % approx.	300	280

2.3 Properties after ageing 7 days at 200 °C

Shore A hardness, approx.	70	77
Tensile strength, MPa, approx.	8.1	7.3
Elongation at break, % approx.	220	160

2.4 Properties after ageing 10 days at 200 °C

Shore A hardness, approx.	74	79
Tensile strength, MPa, approx.	7.2	7.5
Elongation at break, % approx.	170	130

Packaging

BLUESIL MF 360 U is delivered in 25 kg reinforced cardboard boxes or in 500 kg containers.

Storage and shelf life

When stored in its original packaging at a temperature below +40°C, **BLUESIL MF 360 U** may be stored for up to 18 months from its date of manufacture.

Comply with the storage instructions and expiry date marked on the packaging.

Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety

Consult the Safety Data Sheet of **BLUESIL MF 360 U**.

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