

ELASTOSIL® R PLUS 4350/55

## BENCHMARK IN HEAT RESISTANCE

## New Addition Curing Silicone Elastomer for Extrusion

ELASTOSIL® R plus 4350/55 is a 2-component addition curing high consistency silicone rubber designed for extrusion. Vulcanizates show excellent heat resistance up to 300 °C after addition of heat stabilizers of the series ELASTOSIL® AUX STABILIZER H.

ELASTOSIL® R plus 4350/55 is the new benchmark in heat resistance addition curing silicone elastomers. The material is formulated without a specific heat-stabilizer and leaves the choice to the processor. This allows for customized formulation to cover a maximum range of applications and requirements. When formulated with a proper heat stabilizer of

the series ELASTOSIL® AUX STABILIZER H, it is even possible to obtain materials that are resistant to temperatures up to 300 °C and at the same time meet the requirements of common regulations for sensitive applications like Recommendation XV. Silicones of BfR and FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" when post-cured properly.

ELASTOSIL® R plus 4350/55 is usually mixed with 1.5% ELASTOSIL® AUX BATCH PT 1 and 1.5 – 3.0% of ELASTOSIL® AUX STABILIZER H on a two-roller mill to obtain a reactive and heat stabilized compound. It may thereafter be processed on standard extruders

suitable for silicone extrusion. The curing is usually done in hot-air heating channels at temperatures above 200 °C or in specific infrared channels.

## **Special Characteristics:**

- Excellent long term heat resistance up to 300 °C when combined with heat stabilizers of the series ELASTOSIL® AUX STABILIZER H
- Suitable for sensitive applications
   (compliant with positive lists of Recommendation XV. Silicones of BfR and FDA CFR 21
   § 177.2600 "Rubber articles intended for repeated use")
- Addition curing 2-component system
- Designed for extrusion

Product Information R plus 4350/55	Test Method	Unit	Value	
Hardness Shore A	ISO 7619-1	No unit	55	
Appearance			Translucent	
Mixing ratio base + ELASTOSIL® BATCH PT 1			100 : 1.5	
Specific gravity	DIN EN ISO 1183-A	[g/cm <sup>3</sup> ]	1.13	
Tensile strength	ISO 37 Type 1	[N/mm <sup>2</sup> ]	7.9	
Elongation at break	ISO 37 Type 1	[%]	400%	
Tear resistance	ASTM D 624 B	[N/mm]	20	
Rebound resilience	ISO 4662	[%]	63	
Compression Set (175 °C/22h)	DIN ISO 815-B	[%]	6	

Cure conditions: 15 min/165  $^{\circ}$ C in press; post curing: 4h/200  $^{\circ}$ C

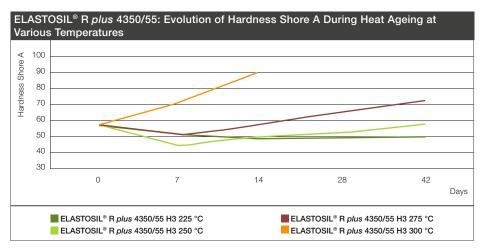
ELASTOSIL® AUX STABILIZER H	Maximum recommended service temperature	Color	BfR XV.	FDA CFR 21 § 177.2600
H1	275 °C	Red-brown	+1)	+1)
H2	300 °C	Beige	-	-
Н3	300 °C	Black	+1)	+1)

<sup>&</sup>lt;sup>1)</sup> When post-cured properly, recommendation: 4h/200 °C for 2mm thickness

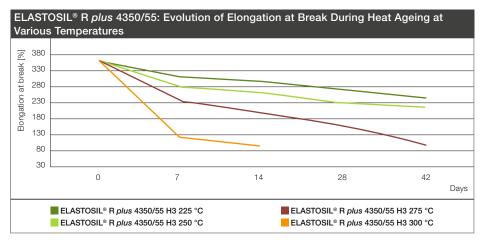














Wacker Chemie AG, 81737 München, Germany, Tel. +49 89 6279-0, Fax +49 89 6279-1770, info@wacker.com, www.wacker.com/lsr, www.wacker.com/socialmedia in





