## SEALS+DIRECT STEAM RESISTANT EXTRUSION SILICONE RUBBER 70 SHORE A

**CMDS0026** 

DOCUMENT NO.



## COMPOUND MATERIAL DATA SHEET

## **GENERAL OVERVIEW:**

This is a peroxide curing high consistency silicone rubber whose vulcanizates possess excellent resistance to hot air, particularly after the addition of a heat stabilizer. The vulcanizates show good tear resistance, low compression set and are highly elastic.

Postcured parts can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA § 177.2600 under observance of any given limitations on extractable and volatile substances.

#### **FEATURES**:

- Can be used in food contact applications
- Heat Resistant
- Low Compression Set

#### **PROPERTIES:**

PARAMETER	TEST METHOD	TYPICAL VALUE				
Density at 20°C	DIN EN ISO 1183-1 A	1.18g/cm <sup>3</sup>				
Hardness Shore A	DIN ISO 48-4	70°				
Tensile Strength	ISO 37 Type 1	10N/mm²				
Elongation at Break	ISO 37 Type 1	380%				
Tear Strength	ASTM D 624 B	24N/mm				
Rebound Resilience	ISO 4662	53%				
Compression Set (22h / 175°C) <sup>(1)</sup>	DIN ISO 815-1 Type B Method A	10%				
Simulation testing at Various temperatures showing changes in properties						
Hardness Shore A (After Heat Aging 168h / 250°C)	DIN ISO 48-4	71°				
Hardness Shore A (After Heat Aging 1000h / 250°C)	DIN ISO 48-4	81°				
Hardness Shore A (After Heat Aging 168h / 250°C)	DIN ISO 48-4	90°				
Tensile Strength (After Heat Aging 168h / 250°C)	ISO 37	5.1N/mm²				
Tensile Strength (After Heat Aging 1000h / 250°C)	ISO 37	5.2N/mm²				
Tensile Strength (After Heat Aging 168h / 300°C)	ISO 37	5.1N/mm²				

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Elongation at Break (After Heat Aging 168h / 250°C)	ISO 37	240%
Elongation at Break (After Heat Aging 1000h / 250°C)	ISO 37	120%
Elongation at Break (After Heat Aging 168h / 300°C)	ISO 37	60%

### **NOTES:**

## $^{(1)}$ Post Cured 4h / 200°C

## Cure Parameters for Material as Extruded

Cure conditions: 0.7% AUX Crosslinker C1 (Dicumyl peroxide); 15 min / 165°C in press, post-cured 4h / 200°C

## **Cure Parameters for Heat Aging Simulation**

**250°C** - Cure conditions: 0.7% AUX Crosslinker C1 (Dicumyl peroxide); 15 min / 165°C in press, post-cured 4h / 200°C. Heat stabilised up to 250°C with 1.5% AUX Stabiliser H3

**300°C** - Cure conditions: 0.7% AUX Crosslinker C1 (Dicumyl peroxide); 15 min / 165°C in press, post-cured 4h / 200°C. Heat stabilised up to 250°C with 1.5% AUX Stabiliser H3 and 2.0% AUX Stabiliser H6

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