SEALS+DIRECT	DESCRIPTION **STEAM RESISTANT EXTRUSION SILICONE RUBBER 70 SHORE A**	DOCUMENT NO. **CMDS0026**

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/cm³**
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)(1)	**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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bsi. ISO 9001:2015 Quality Management
Certificate Number: FS 807117

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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

ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE
1	30.01.25												
CR	APPROVED PJH	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED

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ORIGINATOR CJM
CREATED DATE 17/01/25