# TECHNICAL DATA SHEET



# **ALPA-LSR 140201 Preliminary datasheet**

## **Key Features**

Description

- Product is suitable for Liquid Injection Moulding process
- Curing speed can be accelerated by temperature
- Very good mechanical properties
- Easy demoulding

#### **Use and Cure Information**

#### **IMPORTANT:**

The 'A' part of product

contains the platinum catalyst; great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.

#### Mixing

LSR silicone elastomers usually have a very high viscosity, which is why automatic mixing and dosing equipment is recommended for mixing!

### **Inhibition of Cure**

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels, tubes and mixer) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding

Property	Test Method	Value
Uncured Product		
Color A		translucent
Color B		translucent
Cure Type		Addition
De-mould Time / Full Cure at $23^{\circ}\text{C}/73^{\circ}\text{F}$		> 48 hrs
Density A	DIN 53 479	1.12
Density B	DIN 53 479	1.12
Mix Ratio By Weight		1:1
Viscosity A	Brookfield HBTD	500.000 cP
Viscosity B	Brookfield HBTD	500.000 cP
Viscosity Mixed	Brookfield HBTD	500.000 cP
Cured Product		
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Color		Translucent
Compression Set %	BS ISO 815-1	10 %
Density	DIN 53479	1.12 g/cm3
Elongation at Break	DIN 53 504, S 3 A	600 %
Hardness Shore A	DIN 53 505	40
Linear Shrinkage (%)		< 0.1 %
Max Working Temp		200 °C / 392 °F
Min Working Temp		-40 °C / -40 °F
Tear Resistance (N/mm)	ASTM D 624, Die B	27 N/mm / 154 ppi
Tensile Strength	DIN 53 504, S 3 A	9.5 N/mm2 / 1378

Storage	
Max Storage Temperature	30 °C / 86 °F
Shelf Life	12 mths

clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

## **Curing Conditions**

LSR silicone elastomers do crosslink extremely slowly at room temperature. Temperatures greater than 100 °C are usually required to crosslink the materials in short time.

# **Health & Safety**

Safety Data Sheets available on request.

### Packaging

CHT Moulding Rubbers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

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