# **TECHNICAL DATA SHEET**



## ALPA-LSR 150201 Preliminary datasheet

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Description	Property	Test Method	Value
This is a 2-part addition cure silicone elastomer system for Liquid Injection Moulding (LSR). After mixing parts 'A' and 'B' in the correct proportions, the system will cure at elevated temperatures, usually in the range of 100 °C to 180 °C. The cycle	Uncured Product Color A Color B		translucent translucent
time depends mainly on the temperature and the shape of the	Cure Type		Addition
mould. The cured rubber exhibits excellent physical and electrical properties.	De-mould Time / Full Cure at 23°C/73°F		> 48 hrs
Key Features	Density A	DIN 53 479	1.12
<ul> <li>Product is suitable for Liquid Injection Moulding process</li> </ul>	Density B	DIN 53 479	1.12
<ul> <li>Curing speed can be accelerated by temperature</li> <li>Very good mechanical properties</li> </ul>	Mix Ratio By Weight		1:1
<ul> <li>Easy demoulding</li> </ul>	Viscosity A	Brookfield HBTD	600.000 cP
Use and Cure Information	Viscosity B	Brookfield HBTD	600.000 cP
IMPORTANT:	Viscosity Mixed	Brookfield HBTD	600.000 cP
The 'A' part of product	Cured Product		
contains the platinum catalyst; great care should be taken when using automatic dispensing equipment. Please ensure that it is	Color		Translucent
not contaminated by residual hydride containing rubber in the	Compression Set %	BS ISO 815-1	- %
dispensing equipment, as curing will result. If in doubt, it's	Density	DIN 53479	1.12 g/cm3
advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.	Elongation at Break	DIN 53 504, S 3 A	500 %
2	Hardness Shore A	DIN 53 505	50
Mixing	Linear Shrinkage (%)		< 0.1 %
LSR silicone elastomers usually have a very high viscosity, which is why automatic mixing and dosing equipment is recommended	Max Working Temp		200 °C / 392 °F
for mixing!	Min Working Temp		-50 °C / -58 °F
Inhibition of Cure	Tear Resistance (N/mm)	ASTM D 624, Die B	29 N/mm / 166 ppi
Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing	Tensile Strength	DIN 53 504, S 3 A	10 N/mm2 / 1450 psi
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	Storage Max Storage Temperature Shelf Life		30 °C / 86 °F 12 mths

materials containing certain of these substances e.g. moulding 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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