TECHNICAL DATA SHEET



Translucent

ALPA-LSR 170201 Preliminary datasheet

DescriptionThis 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 time depends mainly on the temperature and the shape of the mould. The cured rubber exhibits excellent physical and electrical properties.

Key Features

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

Application

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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

Test Method Property Value **Uncured Product** Color A translucent Color B translucent Cure Type Addition De-mould Time / Full Cure at > 48 hrs 23°C/73°F Density A DIN 53 479 1.13 Density B DIN 53 479 1.13 Mix Ratio By Weight 1:1 **Brookfield HBTD** 550.000 cP Viscosity A 550.000 cP Brookfield HBTD Viscosity B **Brookfield HBTD** 550,000 cP Viscosity Mixed

Cured Product

Color

00101		Translacent
Compression Set %	BS ISO 815-1	- %
Density	DIN 53479	1.13 g/cm3
Elongation at Break	DIN 53 504, S 3 A	200 %
Hardness Shore A	DIN 53 505	70
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	20 N/mm / 114 ppi
Tensile Strength	DIN 53 504, S 3 A	10 N/mm2 / 1450 psi

Storage

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

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 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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