TECHNICAL DATA SHEET

ALPA-LSR 120201
2 part casting compound

Description

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

Key Features

- Crosslinks at elevated temperatures
- High flowing capacity
- Simple mixing of the components
- Excellent reproduction of details

Application

Crosslink 1:1 by weight with ALPA-LSR 120201 BLUE B

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.

Property	Test Method	Value
Uncured Product		
Color A		**translucent**
Color B		**blue**
Cure Type		**Addition**
Mix Ratio By Weight		**1:1**
Pot Life hrs at 23°C/73°F		**> 24 hours**
Viscosity A	Brookfield	**6000 cP**
Viscosity B	Brookfield	**6000 cP**
Viscosity Mixed	Brookfield	**6000 cP**
Cured Product		
Color		**Blue**
Elongation at Break	ISO 37	**200 %**
Hardness Shore A	DIN 53 505	**22**
Tensile Strength	ISO 37	**3 N/mm2 / 435 psi**
Storage		
Max Storage Temperature		**30 °C / 86 °F**
Shelf Life		**12 mths**

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 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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