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

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		
Color		Translucent

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 psi

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

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.

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

Revision Date 12 Feb 2024

Revision No

Download Date 17 May 2024

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.