

TufGel 331

Character

TufGel 331 is a blue-tinted, transparent, tough, moderately cross-linked soft silicone elastomer. The formulation has enhanced flame retardant properties compared with typical silicone gels. Silicone gels are used to provide protection from vibration and thermal or mechanical shock. Silicone gels also impart excellent moisture protection.

Technical Data

	TufGel 331A A-Component	TufGel 331B B-Component		
Appearance	Transparent	Blue		
SG	0.97	0.97		
Viscosity	800	800	cps	
Mixing ratio	Catalysed Mass 1 : 1			in weight shares
Gel time at 25°C*	40		Min.	
Cure profile	Vulcanisate 30 minutes at 150°C 60 minutes at 100°C 24 hours at 25°C			
Durometer, Shore 00, 24 hours at 25°C	30-50			
Durometer, Shore 00, 30 minutes at 90°C	30-50			
Service temperature range	Additional properties -55 - 204		°C	
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates.			
Electric properties	Excellent dielectric strength			
* Gel time is defined as the time required for the material to become a solid or a semi-solid.				

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Storability / Storage

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

Properties

- One to one mix ratio
- Enhanced flame-retardant properties compared with typical silicone gels
- Dosing equipment not necessary
- Good adhesion to many substrates including glass, aluminum and copper with primer

Application Technique

Mixing

TufGel 331 should be thoroughly mixed using a 1:1 ratio by weight or by volume. Once the components are mixed, the curing process begins. The gel time of the mixed material is listed above under typical properties. Fast curing gels (gel time of less than 30 min) should be dosed utilizing automated mixing and dosing equipment.

Deaeration

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum deaeration may be necessary to completely remove all entrapped air bubbles. To ensure proper deaeration, subject the mixed material to 29 inches of mercury.

Machine mixed material needs normally not be deaerated.

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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