

MOLYKOTE[®] 3179

Dilatant Compound

Features & benefits

- Dilatant rheological properties
- High elasticity
- High bounce
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Filled silicone polymer

Applications

Primarily for the novelty toy market for use by children to bounce, stretch and snap.

Description

MOLYKOTE[®] 3179 Dilatant Compound is a coral-colored silicone polymer that exhibits high elasticity, high bounce and a unique combination of rheological properties. It offers ease of movement under low mechanical force and yet exhibits excellent resistance to slump or flow when at rest.

How to use

MOLYKOTE[®] 3179 Dilatant Compound is designed specifically for the novelty toy market for use by children to bounce, stretch and snap. Its nonslumping characteristic offers an additional dimension to this product. It can be used to mold simple shapes such as cubes, rectangles and pyramids and retain these shapes for weeks, a feature that can expand the scope of this product from the novelty to the educational. This resistance to static flow in combination with ease of manipulation is a feature of MOLYKOTE[®] 3179 Dilatant Compound.

Cleanup

If MOLYKOTE[®] 3179 Dilatant Compound is worked into material or carpets, it may be removed by the careful application of 95% isopropyl alcohol and repeated blotting or brushing. As with all stain removal, check for colorfastness and resistance to fiber damage before applying isopropyl alcohol to an exposed area of the material.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE[®] sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
CTM 0176	Color		Coral
CTM 0517	Rebound	%	70
CTM 0166	Plasticity		70-105
CTM 0022	Specific gravity at 25°C (77°F)		1.10-1.18
CTM 0495	Slump	inches	0.75

⁽¹⁾CTM: Corporate Test Method; copies of CTMs are available on request.

NOTE: Always provide adequate ventilation when using any volatile solvent. Avoid heat, sparks and open flame. Follow all precaution listed on solvent container label.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored at or below 40°C (104°F), MOLYKOTE[®] 3179 Dilatant Compound has a shelf life of 24 months from date of shipment.

Packaging

This product is available in different standard container sizes as shown on molykote.com. Detailed container size information should be obtained from your nearest MOLYKOTE[®] sales office or MOLYKOTE[®] distributor.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.
© 2017-2024 DuPont.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.