

Development Grade: Cerpol® D1017C

Material Type: Ceramifying Elastomer Modified PVC Compound

Description:

Cerpol® D1017C is a development grade of ceramifying elastomer modified PVC, with enhanced flame retardancy. The compound is flexible and is intended for use in extruded seal applications. It contains a high level of an inorganic ceramifying system. In a fire situation, Cerpol® D1017C is designed to transform into a rigid ceramic, with some expansion, to fill gaps and provide an effective fire barrier.

Actual behaviour in a fire situation will depend on many factors. Users should conduct their own testing to verify performance in particular applications.

Extruded profiles can be worked with conventional tools. Safety requirements are detailed in Material Safety Data Sheet D1017.

Physical Properties¹⁾:

Property	Test Method	Value	Units
Physical Form		Granules	
Bulk Density		Approx. 1.0	g/cm ³
Colour		Natural (off-white)	
Density	ISO1183-1	1.72	g/cm ³
Hardness	ISO7619-1	35	Shore D
Flexural Modulus	ISO178	tba	MPa
Tensile Strength	ISO527	3.9	MPa
Elongation at Break	ISO527	32%	
Flammability	UL94 ²⁾	V0	
LOI	ISO4589-1	30.9	

1) Test results are typical values, based on limited trial production. They are not to be construed as a specification

2) Test results have not been certified by UL

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Drying:

Cerpol® D1017C must be thoroughly dried before processing to avoid porosity. 3 hours minimum at 60°C in a desiccant dryer is recommended.

Do not Blend:

Masterbatches, process aids and other additives should not be mixed with this material. Nor should the material be let down with any other polymer. Fire performance may be influenced by small additions of organic or inorganic materials.

Colouring:

Colouring is possible within the normal limits for materials with high filler levels, by using pre-coloured compounds. Please discuss your requirements with Ceram Polymerik.

Processing:

Cerpol® D1017C is intended for extrusion processing.

It can be processed using normal PVC extrusion processing equipment. Tooling should be suitably wear and corrosion resistant. As with all PVC compounds, process temperatures should be kept low (typically to 160–190°C max) to minimise risk of thermal degradation.

Handling & Storage:

Cerpol® D1017C is classified as non-hazardous, but as a Class 9 Dangerous Good. Refer to MSDS D1017C for safe handling requirements.