Desmopan® 9385A HFFR

Designation according to ISO 18064: TPU-ARET

Product description

Desmopan® 9385A HFFR is a thermoplastic polyurethane based on TPU-ARET.

TPU-ARET: aromatic hard segment, soft polyether segment

Desmopan® 9385A HFFR contains halogen free flame retardant (HFFR).

Applications

Desmopan® 9385A HFFR is designed for extrusion particularly for cable applications.

Form supplied

Covestro's TPU are supplied as natural-colored cylindrical or lentil-shaped granules. Depending on the particular grade, the color ranges from transparent/clear and whitish opaque to white. Unless otherwise specified, the natural color can vary from transparent to white.

Typical Values

Property	Test Condition	Value	Unit	Standard
shore hardness A	1s	88	-	DIN ISO 7619-1
Ultimate tensile strength	200 mm/min	22	MPa	DIN 527-2/A1
Strain at break	200 mm/min	835	%	DIN 527-2/A1
Stress at 100 % strain	200 mm/min	10,5	MPa	DIN 527-2/A1
Stress at 300 % strain	200 mm/min	13,5	MPa	DIN 527-2/A1
Abrasion resistance		46	mm³	ISO 4649 method A
Tear strength	500 mm/min	72	kN/m	ISO 34-1
Flammability Classification	0,8 mm. Thick.	V0*	Class	UL94 (60695-11-10)
Flammability Classification	3,2 mm. Thick.	V0*	Class	UL94 (60695-11-10)
Density		1,17	g/cm³	EN ISO 1183-3

* Non-burning dripping

Processing

Recommended processing and drying conditions

To ensure trouble-free processing and avoid any loss of quality, we recommend drying to a moisture content of ≤ 0.05%. Depending on the hardness, the recommended drying temperatures are between 80 and 110°C, with drying times of 1 to 3 hours. Better drying can be achieved in a shorter time with dry-air dryers.

It is essential to ensure that added additives also maintain a residual moisture content of ≤ 0.05%. For optimal processing results, it is advisable to dry these additives as well.

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Property	Test Condition	Value	Unit	Standard
Injection molding - Melt temperature	-	145 - 180	°C	-
Injection molding - Mold temperature	-	20 - 40	°C	-
Extrusion - Melt temperature	-	180 - 210	°C	-
Recommended drying temperature	-	100	°C	-
Recommended drying time		2-4	h	

Health and Safety Information

Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. Information is available in several forms, e.g., in particular in the currently valid safety data sheets and product labels. For further information contact your Covestro representative.

The Product Safety First Program | Covestro

Disclaimer

General

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request.

All information and including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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Non Medical and non Food Contact
This product is not designated for the manufacture of a medical device or of intermediate products for medical devices (1). This product is also not designated for other specifically regulated applications (e.g. including cosmetics, plant protection, fertilisers, plant strengtheners, food processing, food contact and others). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices or for other specifically regulated applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

1) Please see the Guidance on Use of Covestro Products in a Medical Application document.

Sample

Any samples provided by Covestro are for testing purposes only and not for commercial use.

Typical Value

These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

Contact Information

Please use our contact form or contact us directly by sending an e-mail to technical-datasheets@cx.covestro.com .

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