

# Bayblend® FR3005 HF

FR grades / Non reinforced	(PC+ABS)-Blend; flame retardant; very easy-flowing; Vicat/B 120 temperature = 96 °C; UL recognition
	94 V-0 at 1.5 mm

ISO Shortname PC+ABS-FR(40)

ISO 1133 b.o. ISO 11443-A b.o. ISO 2577 b.o. ISO 2577	typical Value 40 105
b.o. ISO 11443-A b.o. ISO 2577	105
b.o. ISO 11443-A b.o. ISO 2577	105
b.o. ISO 2577	
b.o. ISO 2577	0.5 - 0.7
	0.5 - 0.7
ISO 527-1,-2	2700
ISO 527-1,-2	60
ISO 527-1,-2	3.5
ISO 527-1,-2	45
b.o. ISO 527-1,-2	> 40
ISO 180/U	N
ISO 180/A	13
ISO 180/A	8.0
ISO 75-1,-2	81
ISO 75-1,-2	90
ISO 306	94
ISO 306	96
ISO 11359-1,-2	0.76
ISO 11359-1,-2	0.8
UL 94	V-0
UL 94	5VB
UL 94	5VA
ISO 4589-2	30
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IEC 60250	3.2
IEC 60250	3.1
IEC 60250	50
IEC 60250	65
IEC 60093	1E14
IEC 60093	1E16
IEC 60243-1	35
IEC 60112	350
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ISO 62	0.5
ISO 62	0.2
ISO 1183-1	1180
<u>.</u>	
ISO 294	240
	80
1	240
	ISO 527-1,-2   ISO 180/U   ISO 180/A   ISO 180/A   ISO 180/A   ISO 75-1,-2   ISO 306   ISO 306   ISO 306   ISO 306   ISO 11359-1,-2   ISO 11359-1,-2   ISO 4589-2   IEC 60250   IEC 60250   IEC 60250   IEC 60250   IEC 60250   IEC 60250   IEC 60243-1   IEC 60112   ISO 62   ISO 62   ISO 62





## Bayblend® FR3005 HF

Property	Test Condition	Unit	Standard	typical Value
Recommended processing and drying conditions				-
Melt temperatures		°C	-	240 - 270
Standard Melt temperature		°C	-	260
Barrel Temperatures - Rear		°C	-	220 - 230
Barrel Temperatures - Middle		°C	-	225 - 235
Barrel Temperatures - Front		°C	-	230 - 240
Barrel Temperatures - Nozzle		°C	-	255 - 265
Mold Temperatures		°C	-	60 - 80
Hold Pressure (% of injection pressure)		%	-	50 - 75
Plastic Back Pressure (specific)		bar	-	50 - 150
Peripheral Screw Speed		m/s	-	0.05 - 0.2
Shot-to-Cylinder Size		%	-	30 - 70
Dry Air Drying Temperature		°C	-	80
Dry Air Drying Time		h	-	4
Moisture Content max. (%)		%	-	<= 0,02
Vent Depth		mm	-	0.025 - 0.075

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break





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#### Disclaimer

Information Impact properties

Impact properties: N = non-break, P = partial break, C = complete break

Typical value

These values are typical values only. Unless explicitly agreed in written form, the 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.

#### General

The manner in which you use and the purpose to which you put and utilize 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, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. 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 technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us 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. With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and product labels must be observed prior to working with our products.

#### Non Medical and non Food Contact Grade

This product is not designated for the manufacture of a pharmaceutical/medicinal product, medical device or of intermediate products for medical devices1). This product is also not registered for Covestro for the use in other specifically regulated applications, in particular applications requiring regulatory registration, approval or notification (e.g. including cosmetics, plant protection, food contact and others). If the intended use of the product is for the manufacture of a pharmaceutical, medical device or of intermediate products for medical devices or for other specifically regulated applications which may lead to a regulatory obligation of Covestro, 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 pharmaceutical, medical device or intermediate products for medical devices or for the use in other specifically regulated applications, must be made solely by the purchaser of the product without relying upon any representations by Covestro, irrespective of the existence of any regulatory obligation for the registration, approval or notification. 1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

#### Recommended Processing and Drying Conditions

Barrel temperatures are valid for a standard 3-zone barrel. Temperature set-up for different barrel types may change according to configuration. Values for hold pressure as percentage of injection pressure may vary depending on, amongst others, part geometry, injection molding machine and injection mold. Drying conditions are for dry air dryers only. Drying times and drying temperatures may differ depending on valid dryer type. Further information is provided by your local Covestro support as well as in the following brochures: Injection Molding of High Quality Molded Parts - Drying; Determining the Dryness of Makrolon by TVI Test; The fundamentals of shrinkage in thermoplastics; Shrinkage and deformation of glass fiber reinforced thermoplastics [...]. https://www.plastics.covestro.com/Library/Overview.aspx

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