Utechllan UE-90AE10FR DPS300

UE grade series, ether / Shore hardness A 85 - 91

extrusion molding grade; excellent hydrolysis resistance; good mechanical properties; against microbial attack; flame-retardant;

Property	Test Condition	Unit	Standard	Typical Value
Mechanical properties (23 °C)				
shore hardness, method A		-	ISO 868	88
Ultimate tensile strength	200 mm/min	MPa	DIN 53504	30.0
Strain at break	200 mm/min	%	DIN 53504	550
Stress at 100 % strain	200 mm/min	MPa	DIN 53504	8.0
Stress at 300 % strain	200 mm/min	MPa	DIN 53504	15.0
Abrasion resistance		mm^3	ISO 4649	60
Tear propagation resistance	200 mm/min	kN/m	ISO 34-1	80
Other properties (23 °C)				
Density		kg/m^3	ISO 1183-1	1152
Molding conditions				
Injection molding-Melt temperature		°C	-	190 - 210
Injection molding-Mold temperature		°C	-	20 - 40
Extrusion-Melt temperature		°C	-	175 - 195
Maximum drying temperature		°C	-	110

Disclaimer

Disclaimer for Sales products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our information and advice does not release you from the obligation to test our products to determine to your own satisfaction whether they are suitable for the intended processes, uses and product lifetime. This application-specific test must at least include testing to determine the suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by us. The application, use and processing of our products and the products manufactured by you on the basis of our technical data or advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery. With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and the instructions on the product labels/packaging should be read and adhered to prior to working with our products.

Disclaimer Non Medical Grade

This product is not designated as ‘‘Medical Grade” [i] and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient’s body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. This product is also not designated for Food Contact [ii], including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications, Bayer MaterialScience Taiwan Limited 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 Bayer MaterialScience Taiwan Limited. [i] Please see the “Guidance on Use of Bayer MaterialScience Products in a Medical Application” document. [ii] As defined in Commission Regulation VO (EU) 1935/2004.

Typical values

Unless specified to the contrary, the values given are typical values which have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding material specification or warranted properties. Values can be varied to a considerable extent depending on the design of the mold/die, the processing conditions and coloring of the product.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Material Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded.

Disclaimer

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