CAMPUS® Datasheet

VESTODUR® X9426 - PBT FR(30)
Evonik Industries AG

Product Texts

VESTODUR® X9426
Resin: ISO 7792-PBT, EFHP,A11-007

VESTODUR® X9426 is a low viscosity, modified, higher flexible polybuthylene terephthalate resin with a halogen- and phosphorous-free flame retardant.

VESTODUR® X9426 can be used for the injection molding and extrusion process.

Test bars made of this resin are rated V-2 according to UL94 by Underwriters Laboratories Inc.

The used halogen-free flame retardant has a neutral color and does not migrate.

VESTODUR® X9426 is recommended for special applications, for example, wire insulation and injection molded parts in the electrotechnical industry.

The resin is supplied as cylindrical pellets in polyethylene packaging.

For information about processing of **VESTODUR® X9426,** please follow the general recommendations in our brochure "**VESTODUR® Handling and Processing".**

Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	**750**	MPa	ISO 527-1/-2
Yield stress	**30**	MPa	ISO 527-1/-2
Yield strain	**17**	%	ISO 527-1/-2
Nominal strain at break	**40**	%	ISO 527-1/-2
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
Thermal properties	**Value**	**Unit**	**Test Standard**
Temp. of deflection under load, 1.80 MPa	**60**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**140**	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	**130**	°C	ISO 306
Burning Behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested (1.5)	**1.6**	mm	IEC 60695-11-10
Burning Behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested (h)	**0.8**	mm	IEC 60695-11-10
Electrical properties	**Value**	**Unit**	**Test Standard**
Relative permittivity, 100Hz	**4.2**	-	IEC 60250
Relative permittivity, 1MHz	**3.8**	-	IEC 60250
Dissipation factor, 100Hz	**220**	E-4	IEC 60250
Dissipation factor, 1MHz	**330**	E-4	IEC 60250
Volume resistivity	**1E12**	Ohm*m	IEC 60093
Other properties	**Value**	**Unit**	**Test Standard**
Density	**1310**	kg/m³	ISO 1183

VESTODUR® X9426 - PBT FR(30)
Evonik Industries AG

Characteristics

Processing
Injection Molding, Film Extrusion, Other Extrusion

Additives
Release agent, Plasticizer

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING INFORMATION
Maximum Water Content: 0.05 %
When the indicated water content is exceeded, the resin must be dried. The drying time is dependent on the drying temperature. We recommend a drying time of approximately 5 hours at a temperature of 120°C in a fresh air dryer, better yet would be a dry air or vacuum dryer.
PROCESSING INFORMATION
Melt Temperature : 240 - 260 °C
Mold Temperature : 60 - 80 °C

Other extrusion

PREPROCESSING INFORMATION
Maximum Water Content: 0.05 %
When the indicated water content is exceeded, the resin must be dried. The drying time is dependent on the drying temperature. We recommend a drying time of approximately 5 hours at a temperature of 120°C in a fresh air dryer, better yet would be a dry air or vacuum dryer.
PROCESSING INFORMATION
Melt Temperature : 220 - 260 °C

Chemical Media Resistance

Acids
- Acetic Acid (5% by mass) (23°C)
- Citric Acid solution (10% by mass) (23°C)
- Hydrochloric Acid (36% by mass) (23°C)
- Nitric Acid (40% by mass) (23°C)
- Sulfuric Acid (5% by mass) (23°C)

Bases
- Sodium Hydroxide solution (35% by mass) (23°C)
- Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols
- Isopropyl alcohol (23°C)
- Methanol (23°C)
- Ethanol (23°C)

Hydrocarbons
- iso-Octane (23°C)

Ethers	
☺	Diethyl ether (23°C)
Mineral oils	
☺	SAE 10W40 multigrade motor oil (23°C)
☺	Insulating Oil (23°C)
Standard Fuels	
☺	Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)
☺	Diesel fuel (pref. ISO 1817 Liquid F) (23°C)
Salt solutions	
☺	Sodium Chloride solution (10% by mass) (23°C)
☺	Sodium Hypochlorite solution (10% by mass) (23°C)
☺	Sodium Carbonate solution (20% by mass) (23°C)
Other	
☺	Ethyl Acetate (23°C)
☺	Hydrogen peroxide (23°C)
⛔	Ethylene Glycol (50% by mass) in water (108°C)
☺	Water (23°C)
⛔	Deionized water (90°C)

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification. Should you have any further questions concerning material behavior or properties, please contact us at the following address :

for PA: Evonik Resource Efficiency GmbH
RE-HP-IM-TAQ-PT
Gebäude 1227 / PB 16
D-45764 Marl
Phone: +49-(0)2365/49-2720
Fax:+49-(0)2365/49-2070
E-Mail: campusplastics@evonik.com

for PMMA: Evonik Performance Materials GmbH
Marketing / Campus
Kirschenallee
D-64293 Darmstadt
Germany
Phone: +49 - (0) 61 51 / 18-47 11
Fax: +49 - (0) 61 51 / 18-31 77
E-Mail: campusplastics@evonik.com Internet: http://www.plexiglas-polymers.com

® = registered trademark

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

NAFTA:
This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

Sales range and technical data subject to alteration.