

TECANYL VH2 Grey - Stock Shapes

Chemical Designation

PPO (Polyphenylene oxide)

Colour

grey

Density

1.12 g/cm³

This data sheet is only for development purposes and can be changed without prior notice. The commercialisation of the product is not guaranteed.

Main features

- excellent dimensional stability
- very good chemical resistance
- flame retardant according to UL94 V-0
- low smoke emissions
- low moisture absorption
- good electrically insulating

Target Industries

- Aircraft and Aerospace Interiors
- aircraft and aerospace technology
- Railway Interiors
- transportation

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)		322,000 psi	ASTM D 638	
Tensile strength at yield		9280 psi	ASTM D 638	
Tensile strength at break		7690 psi	ASTM D 638	
Flexural strength		14,500 psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	342,000 psi	ASTM D 790	
Impact strength (Izod)	@ 73 °F	5.6 ft-lbs/in	ASTM D 256	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Deflection temperature	@ 264 psi	252 °F	ASTM D 648	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Flammability	FAR 25.853 Appx F, Prt 1, (a), 1, (Air)	Passes	-	1) (1) 60 sec and 12 sec vertical test
Flammability	Glow Wire Ignitability Temp, 1.5 mm	775 °C	-	2) (2) ASTM Test Method 60695-2
Flammability	ASTM E 662 (Air/Rail) Ds @ 4.0 min	20-40 passes	-	3) (3) FAR 25.853 (4) Units: 1.5 mm (5) Toxicity - Draeger Tube (6) ASTM Test Method 60695-2
Flammability (UL94)		V0	-	4) (7) ASTM Test Method 60695-2
Flammability	FAR 25.853 Appx F, Prt 1, (a), 1, (Air)	Passes	°C	5) (8) FAR 25.853 (9) FAA Smoke Density Test (10) ASTM Test Method 60695-2
Flammability	Glow Wire Ignitability Temp, 3.0 mm	800 °C	-	6) (11) Units: mm ASTM Test Method 60695-2
Flammability	Glow Wire Ignitability Temp, 1.0 mm	775 °C	-	7) (12) Flame Spread Index
Flammability	ASTM E 662 (Air/Rail) Ds @ 1.5 min	11-13 Passes	-	
Flammability	FAR 25.853 Appx F, Prt 1, (a), 1, (Air)	Passes	-	9)
Flammability	Glow Wire Ignitability Temp, 2.0 mm	775 °C	-	10)
Flammability	Glow Wire Flammability Index 960°C passes @	1.0	-	11)
Flammability	ASTM E 162 (rail)	~15	-	12)

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

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