

PRX-TPT-350RF

Pronat Industries Ltd

 Tzavei Hanachal St.
 Emek Hefer Industrial
 Park

 Emek Hefer
 Israel 38777

 Tel.: +972 4 628 6888
 Fax: +972 4 628 6890

 www.pronatindustries.com
 www.pronatmedical.com
 sales@pronatindustries.com
Description:

PRX-TPT-350RF is a laminate consisting of 38µm white TEDLAR® PVF film on both sides of a stabelised film core layer. It has been developed specifically for use in RF applications.

PRX-350 provides exceptional protection with excellent RF performance to ensure continuous and reliable communication

The laminate exhibits a very low dielectric constant and loss tangent, it has excellent hydrophobic qualities. It exhibits transparency over a wide transmit-and-receive band width.

Applications:

Radom covers, barriers and other situations requiring RF transparency.

Property	Unit	Test Method	Typical values
Thickness	mm	EN 60674-2	0.34
Area weight	g/m ²	EN 60674-2	470
Water vapor permeability 38°C/90%rh	g/m ² · d	SO 15106-3, test cond. 2	2.3
37,8°C/100%rh	g/m ² · d	ASTM F1249	2.4
Moisture absorption	%	DIN EN ISO 62	≤0.6
Dimensional stability, MD + TD (30 min./ 150 °C)	%	EN 60674-2	≤1.2
Reflection of visible light (380 – 780nm)	%	EN 410	73
Reflection of radiation (280 – 2500nm)	%	EN 410	66
Volume resistivity	Ω·cm	UL 746A	10 ¹⁸
Dielectric strength	kV/mm	UL 746A	68
Comparative Tracking index (max)	V(max)	EC 60112	CTI450
High-current arc ignition	PLC	UL 746A	0
Maximum system voltage (in air)	V _{DC}	EC 60664-1	> 1000
Maximum system voltage (in oil)		EC 60664-1	2580
After conditioning 2000h 85°C/85%rh ³)	V _{DC}	EC 60664-1	> 1000
UV resistance	-	EN 4892-3	passed
Flame spread index	-	ASTM E 162	6.5
Relative Thermal Index (RTI)	°C	UL746B	125

Supplied as converted parts to customers specification.

Complete assembly of radome structure s can be undertaken.

Rev:13.4.19

Disclaimer

All the information contained in this publication is believed to be reliable. User, however, should independently evaluate the suitability of each product for their application. PRONAT makes no representations or warranties as to the accuracy or completeness of the information and disclaims any liability for any incidental, indirect or consequential damages arising from the sale, resale, or misuse, of the product

Health and Safety:

Summary Information

Toxicity:

Non toxic, unlikely to be ingested

Storage:

Will not degrade or decompose, keep dry and below 30°C

Handling:

Use suitable handling equipment and safety shoes and gloves

Disposal:

Suitable for normal recycling and refuse