

Product Overview

Product: PCTFE has outstanding chemical stability, insulation properties, and weather resistance.

Applications: Film, Sheets, Rod, tube, Pipe.

TYPICAL PROPERTIES OF PCTFE (Data not for specification purposes)

Property	Test Method	Unit	PF-701	PF-702	PF-703
MFR		g/10min	<1	4–8	8–12
Specific Gravity	ASTM D7+2		2.11–2.16		
Refractive Index	ASTM D542	nD	1.425		
Water Absorption	ASTM D570	%	0		
Linear Expansion Coefficient	ASTM D696	1/°C	$(4.7–7.0) \times 10^{-5}$		
Melting Point	—	°C	210–215		
Z.S.T. (Zero Strength Temp)	ASTM D1430	Sec.	100–199		
Tensile Strength (23°C)	ASTM D638	MPa (kgf/cm ²)	35–85 (320–380)		
Elongation (23°C)	ASTM D638	%	40–150		
Flexural Strength (23°C)	ASTM D790	MPa (kgf/cm ²)	50–200 (690–740)		
Compressive Strength (0.2% offset)	ASTM D695	MPa	400–450		
Compressive Modulus (1% strain, 25°C)	—	MPa	11.8–13.7 (120–140)		
Tensile Modulus (23°C)	ASTM D638	MPa	$(13–15) \times 10^3$		
Compressive Modulus (23°C)	ASTM D695	MPa	$(14–16) \times 10^3$		
Flexural Modulus (23°C)	ASTM D790	MPa	$(16–19) \times 10^3$		
Impact Strength (23°C, Izod)	ASTM D256	ft·lb/in	2.5–3.5		
Hardness (Shore D, 25°C)	ASTM D676	Shore D	70–75		
Creep (25°C, 140kgf/cm ² , 24hrs)	ASTM D621	%	0.2		
Dielectric Constant (60Hz)	ASTM D150	—	2.24–2.8		
Dielectric Constant (10 ⁴ Hz)	ASTM D150	—	2.3–2.7		
Dielectric Constant (10 ⁶ Hz)	ASTM D150	—	2.3–2.5		

Availability: It is packed in a sealed PVC bag, and loaded in water content proof carton. Net weight (25±0.1) kg per carton.

PACKAGE, TRANSPORTATION AND STORAGE

- PCTFE can be processed by extrusion, injection moulding and calendaring molding
- PCTFE resins are not affected by storage time.
- Ambient storage conditions should be designed to avoid airborne contamination and water condensation on the resin when opening and emptying the packaging.

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