



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
Physical Properties					
Specific Gravity	ASTM D792		2.11-2.16		
Refractive Index	ASTM D542	n _D	1.425		
Water Absorption	ASTM D570	%	0		
Thermal Properties					
Linear Expansion Coefficient	ASTM D696	1/°C	(4.7–7.0)×10 ⁻⁵		
Melting Point	—	°C	210–215		
Z.S.T. (Zero Strength Temp)	ASTM D1430	Sec.	100–199		
Mechanical Properties					
Tensile Strength (23°C)	ASTM D638	MPa (kgf/cm²)	35–85 (320–380)		
Elongation (23°C)	ASTM D638	%	40–150		
Flexural Strength (23°C)	ASTM D790	MPa (kgf/cm²)	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)×10³		
Compressive Modulus (23°C)	ASTM D695	MPa	(14–16)×10³		
Flexural Modulus (23°C)	ASTM D790	MPa	(16–19)×10³		
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/cm², 24hrs)	ASTM D621	%	0.2		
Electrical Properties					
Dielectric Constant (60 Hz)	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		

Product Overview

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

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

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

Process: PCTFE can be processed by Hot Compression Molding, extrusion, injection moulding and calendaring molding

Package, Transportation And Storage

- 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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