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# Virgin PTFE Datasheet

Typical properties of virgin PTFE:

Property	Method	Units	Values
Specific gravity	ASTM D792	-	2.13 - 2.20
Tensile strength	ASTM D638	MPa	20 - 35
Elongation at break	ASTM D638	%	210 - 350
Hardness	ASTM D2240	Shore D	50 - 60
Flexural strength	ASTM D790	N/mm <sup>2</sup>	No break
Flexural modulus	23° C	N/mm <sup>2</sup>	600 - 700
Impact strength 23° C	ASTM D256	J/cm	1.65
Deformation under load	ASTM D695	%	10 - 13
Permanent deformation	ASTM D695	%	6 - 7.5
Dielectric constant	ASTM D150	-	2.1
Dielectric strength	ASTM D149	kV/mm	20 - 70
Volume resistivity	ASTM D257	Ohm cm	10 <sup>18</sup>
Melting point		° C	327
Working temp		° C	-200 to +260
Flammability rating	UL94		V0
Limiting oxygen index	ASTM D2863	%	>95
Coefficient of linear thermal expansion	ASTM D696 ASTM D831	78 - 400° F 25 - 100° C	4 - 9 x 10 <sup>-5</sup> 16 x 1 <sup>-5</sup>

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