

Technical Data Sheet : P22

Material	Polytetrafluoroethylene
General Qualities	P22 is a modified virgin PTFE fine powder suitable for paste extrusion. The material is made using the dispersion process without PFOA. It has excellent chemical stability, electrical and mechanical properties. The high reduction ratio makes it ideal for cable coating and manufacture of thin-walled tubing.
Packaging Storage and Transport	Sealed in PVC bags inside waterproof fibre tub. 25±0.1kg per barrel net weight. Fully certificated. Store in clean, dry warehouse. Avoid excessive heat, cold, moisture, and rough handling.

Material Properties	Testing according to ASTM D 4895		
Tensile Strength		≥25.0	MPa
Elongation at Break		≥300	%
Bulk Density		480±100	g/l
Material Density		2.19±0.2	g/cc
Particle Size D50		500±100	µm
Water Content		≤0.3	%
Extrusion Pressure		60±20	MPa @ RR 1600:1
Maximum Reduction Ratio		2200:1	
Melting Point	First	327±5	°C
	Second	342±5	°C

Safety	If heating above 260 °C, small amounts of decomposition products can fume. Avoid inhalation of these fumes. Processing equipment and surrounding area should be adequately ventilated. Smoking must be avoided. Avoid eye contact. If this happens, irrigate immediately and seek medical advice. It is best to also avoid skin contact. If this happens, wash with soap and water. When cleaning equipment, do not burn off with flame or furnace.
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