

Technical Data Sheet : FEP M6S

Material	Perfluorinated Ethylene Propylene
General Qualities	Clean semi-transparent pellet for general wire and cable, and tubing applications requiring high flex endurance. Chemically inert except to molten alkali metals, high temp and press fluorine and CF ₄
Packaging Storage and Transport	PE bags inside rigid circular drums, 25kg net/drum Labels : quality certificate, brand, trademark, type, grade, lot, weight of contents, pack date. Store in clean, dry warehouse. Avoid excessive heat, cold, moisture, and rough handling.

Material Properties	Typical properties - Testing according to ASTM		
Tensile Strength	D638	≥25	MPa
Elongation at Break	D638	≥330	%
Bulk Density	D1895	≈1.2	g/l
Material Density	D792	2.14 +/- 0.03	g/cc
Flex Endurance	D2176	≥50000	Cycles MIT
Melting Point	D3418	255 +/-5	°C
MFR	D2116 /D1238	6 +/- 2	g/10min
Volume Resistance	D257	1x10 ¹⁶	Ωcm
Breakdown Voltage	D149	22+/-2	kV/mm
Dielectric Constant	D150	2.15	MHz
Dielectric Loss Tan	D150	3.0	MHz

Safety	If heating above 250 °C, small amounts of decomposition products can fume to give HF gas. Avoid inhalation of these fumes. Processing equipment and surrounding area should be adequately ventilated. Smoking must be avoided. Avoid inhalation or eye contact with airborne powder. If this happens, irrigate immediately and seek medical advice.
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