

Technical Data Sheet : ETFE M12

Material	Ethylene Tetra-Fluoro-Ethylene
General Qualities	Clean semi-transparent pellet for wire and cable, films, tubes and general extrusion and injection moulding. Chemically inert, except top molten alkali metals, very high pressure fluorine and CF ₄ . High flex crack resistance, high radiation resistance
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	≥42	MPa
Elongation at Break	D638	≥320	%
Bulk Density	D1895	≈1.2	g/l
Material Density	D792	1.74 +/- 0.03	g/cc
Hardness	D2240	72+/-5	Shore D
Melting Point	D3418	255 +/-5	°C
MFR	D2116 /D1238	12 +/- 2	g/10min
Volume Resistance	D257	>1x10 ¹⁷	Ωcm
Dielectric Strength	D149	79	kV/mm
Dielectric Constant	D150	2.6	-

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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