

POLYETHYLENE UBEC454

UBE POLYETHYLENE (Wire & Cable grade)

Properties	Features	Applications
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Properties

Item	Unit	Nominal value	Test method
MFR	g/10min	1	ASTM D1238
Density	kg/m ³	920	ASTM D1505
Tensile strength	MPa	18	ASTM D638
Tensile elongation	%	650	ASTM D638
Flexural strength(Olsen)	MPa	150	ASTM D747
Hardness	(HDD)	52	ASTM D2240
Vicat softening point	°C	92	ASTM D1525
Brittle temperature	°C	<-75	ASTM D746
Volume resistivity	Ω·m	10 ¹⁴ <	ASTM D257
Dielectric constant	(1 MHz)	2.3	ASTM D1531
Dissipation factor	(1 MHz×10 ⁻³)	0.1	ASTM D1531
Dielectric strength	MV/m	36	ASTM D149

* These values are typical properties and not to be considered as specifications.
* Specimens are prepared from compression-molded sheets.

Features

- Good electrical properties
- Good adhesive property with conductor

Applications

- Insulation for telephone, power, control, coaxial, signal, instrumentation cables.

