

PRODUCT OVERVIEW

A black, UV- and heat-stabilised polyethylene compound for power, telecom, conduit and industrial cable jacketing.

Base / family	Polyethylene Compounds	Primary process	Cable extrusion
Supply form	Pellets	Standard colour	Black

TYPICAL PROPERTIES

Property / condition	Test method	Typical value	Unit
Melt flow rate, 190°C/2.16 kg	ISO 1133-1	0.32	g/10 min
Density, 23°C	ISO 1183-1	0.956	g/cm ³
Carbon-black content	IEC 60811-605	2.5	wt.%
Carbon-black dispersion rating	IEC 60811-607	≤ 3	grade
Tensile stress at break	IEC 60811-501	32	MPa
Elongation at break	IEC 60811-501	≥ 600	%
Tensile/elongation retention, 110°C/336 h	IEC 60811-401	≥ 75	%
ESCR, F50, Condition B	ASTM D1693	≥ 2,000	h
Oxidation induction time, 210°C	ISO 11357-6	≥ 30	min
Volume resistivity, 23°C	IEC 62631-3-1	≥ 1×10¹⁶	Ω·cm

Unless otherwise stated, standard specimen preparation and conditioning apply. Typical values are representative and are not minimum specification limits.

APPLICATIONS - Power-cable sheath - Telecom cable jacket - Conduit and industrial jacketing	KEY BENEFITS - High ESCR - Controlled carbon-black dispersion - Electrical insulation performance
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PROCESSING GUIDELINES

Cable extrusion. Recommended melt temperature: 180-220°C; die temperature: 190-220°C. Select screen pack, draw-down and cooling conditions for smooth surface and controlled shrinkback.

Technical note: Complete cable performance depends on cable construction and the applicable sheath standard.

PACKAGING AND STORAGE 25 kg moisture-resistant bags on pallets. Store dry, below 40°C, away from sunlight and direct heat. Recommended shelf life: 12 months in unopened packaging.	REGULATORY DOCUMENTATION Current safety and grade-specific regulatory documentation is available through Technical Service for the intended application and market.
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The information in this document is provided for material selection and processing guidance. Suitability for a specific design, process and end use should be confirmed by the user under actual service conditions.