

ZARPLSTM LLB8706

Black LLPE Jacketing Compound

• Description

ZARPLSTM LLB8706 is a black linear low density compound for jacketing of power and communication cables. Characterized by:

- * High melting temperature (approximately 120°C)
- * Low coefficient of friction
- * Good abrasion resistance
- * Good petroleum-jelly resistance
- * Low water permeability
- * Very wide processing window

ZARPLSTM LLB8706 contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance

Applications

ZARPLSTM LLB8706 is intended for jacketing of power and communication cables. The abrasion resistance combined with low coefficient of friction makes it ideally suitable for jacketing of fibre optic cables.

Specifications

ZARPLSTM LLB8706 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

ASTM D 1248 Type I, Class C, Category 4, Grade J3, E4, E5, W2-4

BS 6234: Type 03C, TS2

BT M 132

EN 50290-2-24

HD 620 S1, Part 1, table 4B, DMP 12, 14, 17

IEC 60502 ST3

IEC 60708

IEC 60840, ST3

ISO 1872-PE, KCHL, 18-D006

NF C 32-060

REA Bulletin 345-21

US MIL SPEC LP 390 C, Type III, Class L, Grade 2, 3 and 4, Category 4





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Physical Properties

Data should not be used for specification work

Property	Typical Value	Test Method
Density (Base Resin)	0.92 gr/cm3	ISO 1183
Density (Compound)	0.93 gr/cm3	ISO 1183
Melt Flow rate (190°C, 2.16 kg)	0.7 gr/10 min	ISO 1133
Elongation at Break (250 mm/min)	500 %	IEC 60811-401
Tensile Strength (250 mm/min)	17 N/mm2	IEC 60811-401
Hardness Shore D (1s)	49	ISO 868
Brittleness Temperature	<-76 °C	ASTM D 746

Electrical Properties

Data should not be used for specification work

• Property	Typical Value	Test Method
Dielectric Constant (1MHz)	2.5	IEC 60250
Dissipation Factor (1MHz)	0.0004	IEC 60250
DC Volume Resistivity	10 ¹⁶ Ohm.com	IEC 60093
Dielectric Strength	20 kV/mm	IEC 60243

• Processing Guidelines

ZARPLSTM LLB8706 provides excellent surface finish and allows a broad processing window. Standard PE-screw gives satisfactory results but also low compression screws can be used successfully. We suggest a temperature profile as below:

Feed section: 170°C

Metering section: 200°C

Head and die 210° C

If preheating and/or drying is used, the maximum temperature should be 90°C.

Packaging

Bulk

Octabin

Bags

