

Product Information:

SX-6052-MB is a black medium density polyethylene jacketing compound.

SX-6052-MB is designed for jacket for energy and communication cables

The manufacturing of polymers outside the traditional MFR and density range making it possible to optimize processability, reduce shrinkage and yet provide excellent physical toughness and environmental stress crack resistance (ESCR).

SX-6052-MB contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance.

The properties of this compound comply with the requirements,

ASTM D 1248 Type II, Class C, Category 4, Grade E8, E9, J4 DIN VDE 0818 , IEC 60502, Part 2, Type ST7, IEC 60708, IEC
ISO 1872-PE, KCHL, 33 D-006 60840, Type ST7, HD 603 S1, DMP 5, 7, 8,
HD 620 S2, Part 1, table 4B, DMP 2, 9, 10, 12, 14, 15 EN 50290-2-24 DMP 2, 5, 7, 8, 9, 10, 12, 14, 15

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ISO 1133-1, Method A	g/10 min	0,8
Density (Base Resin)	ISO 1183-1, Method A	g/cm ³	0,937
Density (Compound)	ISO 1183-1, Method A	g/cm ³	0,949
Hardness	ISO 868	Shore D	57
Carbon Black Content	ASTM D1603	wt%	2,5
Light Absorption Coefficient	ASTM D3349	Abs/mm	400
Low Temperature Brittleness	ASTM D746	°C	<-76
Mechanical Properties			
Tensile Strength (50 mm/min)	ISO 527-2	MPa	30
Elongation at Break (50 mm/min)	ISO 527-2	%	850
Flexural Modulus	ISO 178	MPa	720
ESCR (F ₀ , 50 °C, 10% Igepal)	IEC 60811-406	hrs	> 5000
Electrical Properties			
Dielectric Constant @ 1 MHz	EC 60243	kV/mm	20
DC Volume Resistivity	IEC 60093	PQ.cm	10

Packaging:

It is packaged as 1000 kg in octabin.

Processing:

Extrusion Temperatures: 200°C – 220 °C –230 °C- 240°C – 250°C

Storage&Handling:

SX-6052-MB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

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