

# SABIC WIRE & CABLE SOLUTION

SABIC wire & cable solution offer range of material including LLDPE for XLPE base resin, POE to enhance flexibility, toughness, to increase filler loading in Wire & Cable compound.

## INDUSTRY CHALLENGES

- Volatile raw material cost, intense global competition
- Complex and stringent safety / environmental regulations
- constant pressure to innovate for higher bandwidth/smarter cables in evolving sectors like 5G, EVs, and renewables.

## VALUE PROPOSITION



EASY TO PROCESS



CROSS LINKING VIA PEROXIDE,  
RADIATION, SILANE



EXCELLENT ESCR PROPERTY

## SABIC LLDPE FOR XLPE COMPOUND

PE Grades	Melt Index (g/10 min)	Density (g/cm <sup>3</sup> )	Remarks
218NJ	2.0	0.918	Doesn't contain slip and antilock
318CNJ	2.8	0.918	Sufficient antioxidant and Cu-inhibitor should be added to meet specific ageing requirements.

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## POTENTIAL BENEFITS OF POE IN WIRE & CABLE COMPOUND

- Low density and crystallinity for high filler loading
- Low modulus for softness and flexibility
- Easy feeding and handling during production.
- Excellent Environmental Stress Crack Resistance
- Crosslinking via peroxide, radiation, silane
- Good blend partner with a variety of other polymers (EVA, LLDPE, EPR etc)

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LOW DENSITY HELPS IN HIGH  
FILLER LOADING

## SABIC POE FOR WIRE & CABLE COMPOUND

Grades	Melt Index (g/10 min)	Density (g/cm <sup>3</sup> )	Remarks
C0570D	0.5	0.868	
C1070D	1.0	0.868	
C1085	1.0	0.885	Ethylene (C2) – Octene (C8) copolymer.
C3080	3.0	0.880	
C5070D	5.0	0.868	
B1060	1.1	0.863	Ethylene (C2) – Butene (C4) copolymer.
B5060	5.0	0.865	

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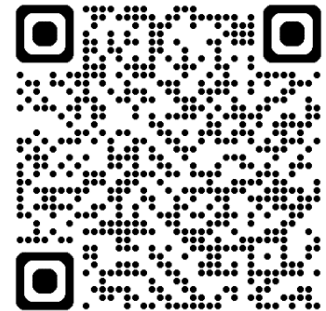
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