



ELSEWEDY
POLYMERS

From Insulation to Innovation

A Complete Cable Materials Partner

About Elsewedy Polymers

Elsewedy Polymers is a specialized arm of **Elsewedy Electric**, focused on the development and supply of polymer compounds for manufacturing applications.

Leveraging the group's industrial capabilities and market reach, Elsewedy Polymers provides reliable, high-performance materials designed to meet the technical and operational requirements of modern cable production.



Elsewedy Electric

Elsewedy Electric is a global infrastructure solutions provider, evolving from a local manufacturer of electrical products into an integrated, multi-sector organization.

The group operates across **five core sectors**: Wire, Cable & Accessories, Electrical Products, Engineering & Construction, Digital Solutions, and Infrastructure Investments.

With **31 production facilities** across Africa and Asia, **exports to more than 110 countries**, 19,000 employees, and revenues exceeding **USD 5 billion** in 2025, Elsewedy Electric delivers large-scale, high-quality solutions worldwide.

Why Global Manufacturers Choose Elsewedy Polymers



01. Industrial-Scale Production

With 37 production lines and 160,000 MT annual capacity, we provide the manufacturing scale required to support large industrial supply chains.

02. In-House Testing & Technical Support

Our technical teams provide material testing, simulation, and consultation, ensuring compounds meet the precise needs of each application.

03. Strategic Global Location

Operating from Egypt enables efficient logistics between Europe, Africa, and the Middle East, providing faster market access compared with distant suppliers.

04. Trusted Industrial Heritage

As part of Elsewedy Electric Group, we build on decades of experience supplying materials for manufacturing.

05. Custom Polymer Engineering

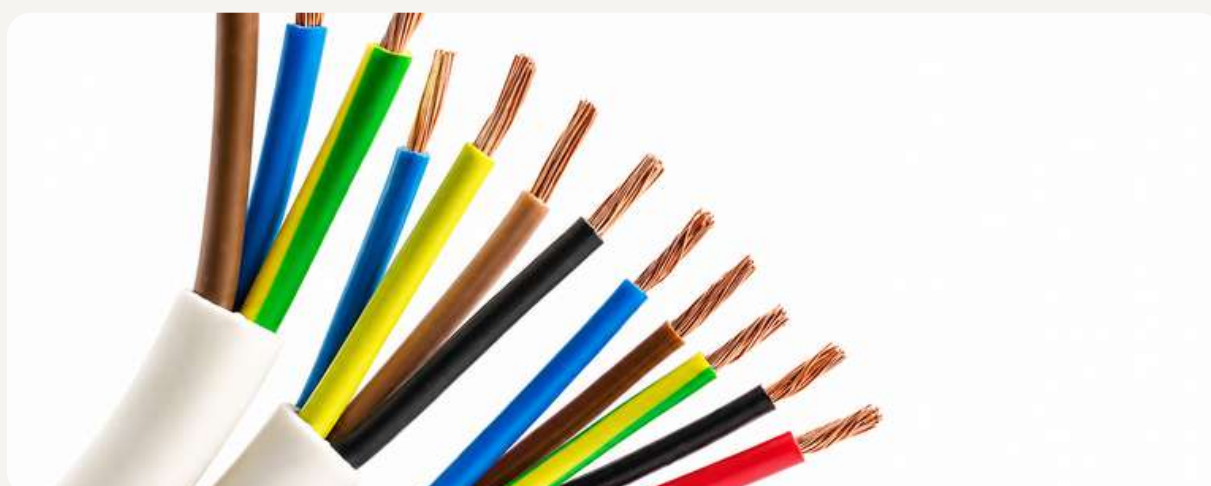
We design customized polymer formulations to meet specific application requirements while improving performance and safety.

PVC Insulation Compounds

Designed to provide reliable electrical insulation and performance stability across a wide range of cable applications.

Grade	Standard	Hardness (Shore A)	Density (g/cm ³)	Tensile (kg/cm ²)	Elongation (%)	Thermal Stability (200°C / min)
CS110001	IEC 60227 / BS EN 50363	86	1.51	14	220	50
CS110431	BS 7655	87	1.53	13	210	50
CS110564/B	IEC 60502	89	1.55	13	180	50
CS110819	IEC 60227 / BS EN 50363	89	1.55	13	200	50
CS110887	IEC 60502-1	85	1.44	15	230	50
CS110018	UL 1581	86	1.38	16	250	240
CS110841	BS 7655 / ISO 6722	92	1.32	18	200	240
CS110855	BS 7655 / ISO 6722	93	1.32	18	200	240
CS111035	EN 50363-3 / UL 2556	90	1.37	16	200	240
CS111015	TW, THW2, THWN, THHN	94	1.35	20	200	180
CS110081	—	90	1.39	20	250	50

Maximum Operating Temperature (70°C)



PVC Sheathing Compounds

Engineered for mechanical protection, durability, and environmental resistance.

Grade	Standard	Hardness (Shore A)	Density (g/cm ³)	Tensile (kg/cm ²)	Elongation (%)	Thermal Stability (200°C / min)	Color
CS120153	BS 7655	75	1.55	10	250	≥ 50	White
CS120933	IEC 60502	88	1.58	13	180	≥ 50	Black
CS121513	IEC 60502	90	1.57	13	180	≥ 50	Black
CS122086	IEC 60502	88	1.51	14	200	≥ 50	Black
CS122364	BS 7655	90	1.63	7	150	≥ 50	Black
CS122055	BS 7655	87	1.49	15	200	≥ 50	Black
CS121636	IEC 60502, ASTM D 1047 & IEC 60332-3	86	1.52	13	210	≥ 50	Black
CS122564	IEC 60502, ASTM D 1047 & IEC 60332-3	88	1.55	14	210	≥ 50	Black
CS120244	IEC60502 & IEC60332-3	90	1.57	13	180	≥ 50	Black

Maximum Operating Temperature (90°C)

XLPE Compounds

Low Voltage

High-performance cross-linked polyethylene solutions offering enhanced thermal resistance and electrical properties.

Grade	Standard	Density (g/cm ³)	Tensile Kg/cm ² ≥	Elongation % ≥	Color	Special Features
GF1510/ CT0461	IEC60502-1, BS 7655, HD 603	0.925	17	300	Natural	For Cable Insulations
GF2500/ CT0480	IEC60502-1, BS 7655, HD 603	0.92	16	300	Natural	For LV Power Cables With Small Diameter
XL0021BK/CT0461	IEC60502-1, BS 7655, HD 603	0.925	16	300	Natural	For Cable Insulations
XL9021BK/CT0461	NFC 33 209, IEC60502-1, BS 7655, HD 603	0.95	18	300	Black	For Cable Insulations

Medium Voltage

Designed for medium-voltage applications up to 36 kV, built to handle voltage stress while preserving insulation integrity and providing strong moisture resistance.

HFFR Compounds

Halogen-free flame-retardant materials designed to improve safety by reducing smoke and toxic emissions in fire conditions.

Grade	Standard	Density (g/cm ³)	Tensile Kg/cm ² ≥	Elongation % ≥	Notes
XLHF1002-HFCT02	IEC 60092-351/HF90, BS EN 50363- 5 for EI5 & BS EN 50525-3-41	1.41	10	170	Natural Halogen Free
HF190077	IEC 60092 – 359 , BS 7655	1.48	11	170	Black Halogen Free
HF190060	IEC 60092 – 359 , BS 7655	1.48	11	180	Black Halogen Free
HB190001	IEC 60502, BS 6727, BS EN 50288-7	-	-	-	Black Halogen Free
HF190029	IEC 60092 – 359 , BS 7655	1.49	11	175	Black Halogen Free



Extended Product Range

Masterbatch

Precision-formulated masterbatch designed to enhance performance, consistency, and efficiency.

Our masterbatch is engineered for reliable color strength, smooth processing, and consistent dispersion across every application. Each formulation is optimized for stability, efficiency, and compatibility, helping manufacturers achieve cleaner production, reduced waste, and high-quality end products with every run.

Polypropylene Filling Yarn

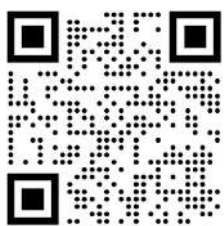
Lightweight yet strong, polypropylene fibers reduce costs while ensuring durability and resistance to harsh conditions.

Its balanced strength-to-weight ratio supports efficient cable production while maintaining durability, reliability, and long-term resistance in demanding environments.





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