

# Polyolefin Compounds for Wire and Cable

## 电线电缆用聚烯烃化合物

Key Properties and Applications

关键性能和应用



## PRODUCT SELECTION GUIDE

# Polyolefin Compounds for Wire and Cable 电线电缆用聚烯烃化合物

Product 产品	Typical Customer Application 典型应用	Melt Flow (g/10 min.)	Density (g/cm <sup>3</sup> )
<b>Low Density Polyethylene 低密度聚乙烯</b>			
Petrothene NA940000	Natural insulation and jacket base resin	0.25	0.918
Lupolen 1840D*	Natural insulation or jacket base resin	0.25	0.919
Lupolen GX 4087*	Solid and foamed insulation; base resin in direct peroxide injection applications	1.5	0.919
Petrothene NA951080	Solid and foamed insulation; base resin in direct peroxide injection applications	2.2	0.920
Petrothene NA217080	Gas injection blending component used in RF coax insulation	5.6	0.923
Petrothene NA204090	Cable components and accessories	7	0.918
Petrothene NA202000	Cable components and accessories	22	0.915
Petrothene NA270001	Cable components and accessories; skin coat for skin-foam-skin insulation	70	0.915
<b>Ethylene Vinyl Acetate (EVA) 乙烯醋酸乙烯共聚物</b>			
Petrothene YR92866	Black jacket compound with higher flexibility	0.48	6% VA
Ultrathene UE672006	Natural insulation and jacket base resin	0.45	13.5% VA
Petrothene NA362005	Natural insulation and jacket base resin	0.5	6.6% VA
Ultrathene UE624000	Natural insulation and jacket base resin	2.1 (EMI)	18% VA
<b>Ethylene Butyl Acrylate (EBA) 乙烯-丙烯酸丁酯共聚物</b>			
Lucalen A2700H*	Natural insulation or flexible jacket base resin	1.4	15% nBA
Lucalen A2700M*	Natural base resin for semiconductive shields and HFFR insulations	7.2	17% nBA
Lucalen A2700P*	Natural base resin for semiconductive shields and HFFR insulations	15	17% nBA
<b>Ethylene t-Butyl Acrylate Acrylic Acid (E/tBA/AA) 乙烯-丙烯酸叔丁酯-丙烯酸共聚物 (E/tBA/AA)</b>			
Lucalen A2920M*	Adhesive resin for the bonding of aluminium/copper and polyethylene	7	7% tBA + 4% AA
<b>Linear Low Density and Medium Density Polyethylene 线性低密度聚乙烯和中密度聚乙烯</b>			
Petrothene GA808091	LLDPE natural insulation and jacket base resin	0.75	0.920
Petrothene PR92735	LLDPE black jacket	0.72	0.930
Petrothene GA808093	LLDPE natural insulation and jacket base resin with metal deactivator	0.75	0.920
Petrothene GA837091	MDPE natural insulation and jacket base resin	0.75	0.935
Petrothene HR92953	MDPE black jacket	0.75	0.945
Petrothene GA616050	LLDPE natural base resin	7	0.918
Petrothene GA564189	LLDPE natural base resin	21	0.924
<b>Black Masterbatch 黑色色母</b>			
Petrothene PM92973	LLDPE black masterbatch (40%) with good thermal stability	6.8 (HLMI)	1.140

Note: Products listed represent only a portion of the products selected for wire and cable. Products with an \* are produced in Europe and those with \*\* are produced in both Europe and the U.S. All other products are produced in the U.S.

注：所列产品仅代表电线电缆所选产品的一部分。带\*的产品产地为欧洲，带\*\*的产品在欧洲和美国均有生产。所有其他产品均在美国生产。

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<b>High Density Polyethylene 高密度聚乙烯</b>			
Numerous broad and bi-modal HDPE natural and black compounds	Conduit	0.06 to 0.4	0.94 to 0.95
<i>Petrothene</i> KR92828	Black jacket and insulation	0.17	0.955
<i>Petrothene</i> KR52828E*	Black jacket and insulation	0.3	0.956
<i>Petrothene</i> LR52800E*	Natural insulation or jacket base resin; microduct for fiber optic cable	0.3	0.950
<i>Petrothene</i> KR92717	Black jacket and insulation	0.7	0.948
<i>Petrothene</i> LR590005	Natural insulation and jacket base resin with metal deactivator	0.8	0.948
<i>Petrothene</i> LR590001	Natural insulation and buffer tube base resin; used in communication cables where pedestal test is required	0.8	0.948
<i>Petrothene</i> LR686001	Chemical foamed insulation; used in communication cables where pedestal test is required	0.8	0.948
<i>Alathon</i> M5370RF	Gas injection blending component used in RF coax insulation	7.3	0.953
<b>Polypropylene 聚丙烯</b>			
<i>Catalloy</i> **	Broad range of <i>Adflex</i> , <i>Hifax</i> and <i>Softell</i> Thermoplastic Polyolefins for various power and communication cables	0.6 to 30	0.880 to 0.900
<i>Petrothene</i> PP1510PC	Natural insulation and jacket base resin	1.3	0.902
<i>Moplen</i> RP210G*	Random copolymer used as natural insulation	1.8	0.900
<i>Pro-Fax</i> EP315J	Natural insulation and jacket base resin with metal deactivator	2.6	0.902
<b>125°C Flame Retardant 125°C 阻燃</b>			
<i>Petrothene</i> T3XL7420	Thin-wall automotive crosslinkable via continuous vulcanization (C.V.)	N/A	1.400
<i>Petrothene</i> XL07425	Automotive and appliance wire insulation, C.V. crosslinkable	N/A	1.400
<i>Petrothene</i> YR19600B	Thin-wall automotive crosslinkable via radiation e-beam	N/A	1.400
<b>Moisture Cure 湿气固化</b>			
<i>Aquathene</i> moisture crosslinkable systems offer:			
– Building, industrial, submersible pump, airport lighting, ruggedized and photovoltaic cable applications			
– UL Listings include SIS, RHW-2, XHHW-2, VW-1, FT4, cable tray use, USE-2.			
– CSA certifications include R90, RWU90, -40°C, FT1, FT2			
– Track resistance (ICEA T-27-581)			
<i>Aquathene</i> AQ120000	EVS copolymer natural base resin		
<i>Aquathene</i> FR409800	RoHS-compliant, colorable FR masterbatch; XHHW-2	0.7	1.470
<i>Aquathene</i> FR439800	RoHS-compliant, colorable FR-catalyst masterbatch; XHHW-2	0.7	1.470
<i>Aquathene</i> CM04483	Fast acting catalyst masterbatch	13.0	0.936
<i>Aquathene</i> PM92949C	Black masterbatch (40%)	NA	1.140
<i>Aquathene</i> CM04482	Standard Catalyst Masterbatch	7	0.926
Broad range of PE resins	Abuse resistance and Monosil crosslinking	0.35 to 8.2	0.92 to 0.965

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**PRODUCT SELECTION GUIDE**

# Catalloy grades for Wire and Cable application

## 电线电缆用 Catalloy 牌号

Properties	Physical		Mechanical					Thermal		Electrical		Specific Properties Features
	Density	MFR 230°C, 2.16kg	Flexural Modulus	Tensile Stress at Break	Tensile Elong. at Break	Shore D Hardness	Tg DMTA	Vicat Softening Temp. 10N	Tm	Volume Resistivity	Dielectric Strength	
	23°C											
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527	ISO 868	Internal Method	ISO 306/A50	ISO 11357-3	ASTM D257	ASTM D149	
Units	g/cm <sup>3</sup>	g/10 min	MPa	MPa	%	Points	°C	°C	°C	Ohm-cm	kV/mm	
Softell CA7469A	0.88	0.5	130	7	500	87 (Sh.A)	-40	50	142	7x10 <sup>16</sup>	47	High Flexibility, Low Tg
Softell CA 02 A	0.88	0.6	30	10	500	75 (Sh.A)	-25	41	142	9x10 <sup>16</sup>	46	Very high flexibility, filler loading
Hifax CA 10 A	0.88	0.6	90	11	500	30	-25	60	142	4x10 <sup>16</sup>	46	High flexibility and good tensile performance
Hifax CA 7441 A	0.88	0.8	85	12	500	30	-25	56	163	3x10 <sup>16</sup>	46	Combination of excellent thermal properties and flexibility
Hifax CA 12 A	0.88	0.8	330	13	550	36	-45	78	163	3x10 <sup>16</sup>	48	Good balance between hardness and thermal properties
Hiflex CA 7700 A	0.88	1.4	170	10	450	33	-45	75	142	6x10 <sup>16</sup>	49	Very low Tg, flexibility and thermal resistance
Hiflex CA 7800 A	0.88	1.2	210	11	450	35	-45	85	163	6x10 <sup>16</sup>	49	Very low Tg, flexibility and thermal resistance
Hifax CA 7320 A	0.88	2.1	200	10	500	32	-40	62	163	-	-	Combination of excellent thermal properties and flexibility
Hifax CA207A	0.89	7.5	550	22	700	46	-35	94	163	6x10 <sup>16</sup>	48	Low Tg, Low shrinkage
Hifax CA212A	0.88	8	80	10	600	30	-25	56	142	3x10 <sup>16</sup>	45	High flexibility and good tensile performance
Hifax CA 60 A	0.88	15	80	10	600	30	-25	40	56	3x10 <sup>16</sup>	45	High flexibility and good tensile performance, high flow

Note: Catalloy products listed represent only a portion of the products selected for wire and cable, all listed products are produced in Europe.

注: 以上所列 Catalloy 产品仅代表电线电缆所选产品的一部分, 均在欧洲生产

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