



Relene Polyethylene (PE) Grades & Applications



Reliance Polymers offers the entire range of Polyethylene (PE) viz. High Density Polyethylene (HDPE), Linear Low-Density Polyethylene (LLDPE) and Low Density Polyethylene (LDPE) manufactured by state-of-the-art technologies available worldwide. Both HDPE & LLDPE are available in a wide range of MFI and density for a broad spectrum of applications. HDPE grades are specially designed to meet demanding applications like high-pressure pipes, telecom ducts, carrier bags, woven sacks, injection and blow moulded products. Octene and Butene grade LLDPE from Reliance are used extensively in specialty films, milk and edible oil packaging, lamination films, cast films, stretch films and other applications like rotational moulding and injection moulded products. LDPE finds extensive use in heavy-duty films, lamination films, extrusion coating and moulding applications.

High Density Polyethylene Grades (HDPE)

Grade	MFI (g/10 Min)	Density (g/cc)	Typical End use
Oriented Structures			
E52009	0.90	0.952	Woven Sacks for Fertilizers, Food Grains etc
HD53EA010	1.00	0.955	Low Denier Fabric for wrapping, Woven sacks
HD55EF010	1.00	0.955	Monofilaments for Mosquito nets, Fishing nets
EE20	1.45	0.945	General Purpose Raffia Fabric, Molding of small parts etc
Blown Film / Blow Molding			
F46003	0.35	0.948	Coextrusion, Liners, Blow Molding < 5Ltrs. Good ESCR, Lamitubes / Shoulder
B56003	0.35	0.956	Coextrusion, CoEx for Lamitubes, Blow Molding upto 20 Ltrs. Good ESCR
B60003	0.40	0.960	Coextrusion, CoEx for Lamitubes, Blow Molding upto 20 Ltrs, Light weight & better Stiffness
Blow Molding			
54GB012	1.20**	0.954	Blow Molding upto 20 Ltrs. Good ESCR
52GB003	0.45**	0.952	Medium Blow Molding Containers, Corrugated Pipes etc. Good ESCR
52GB002	0.25**	0.952	Blow Molding containers ~ 100 Lts
Pipes & Ducts			
46GP003	0.30**	0.948	Pressure Pipes with PE100 rating
45GP004	0.45**	0.948	Pressure Pipes with PE80 rating
46GP009	0.90**	0.948	Pressure Pipes @ PE63
46GP009UV	0.90**	0.948	Telecom Ducts for OFC
P15807	1.20**	0.948	Telecom Ducts for OFC
Injection Molding			
M60075	8.0	0.960	Crates, Luggage & Other Rigid IM
L60075	8.0	0.960	Crates, Luggage & Other Rigid IM. UV Stabilized
HDS0MA180	20.0	0.952	Houseware. Storage Bins & Thin wall moulding
M60200	20.0	0.960	Houseware. Storage Bins & Thin wall moulding

Linear Low Density Polyethylene Grades (LLDPE)

Blown & Cast Film Applications			
O19010	1.00	0.918	C8 LL for Heavy Duty applications Blown Film with Slip & AB
O21010	1.00	0.918	C8 LL for Heavy Duty applications Blown Film without Slip & AB
F19010 / JF19010 / LL20FS010	1.00	0.918	C4 LL for Blown Film applications with Slip & AB
F18010 / JF18010 / LL20FA010	1.00	0.918	C4 LL for Blown Film applications without Slip & AB
F22020 / JF19020 / LL20FS020	2.00	0.918	C4 LL for Blown Film application with Slip & AB
F18020 / JF18020 / LL20FA020	2.00	0.918	C4 LL for Blown & Cast Film application without Slip & AB
JE18030	3.00	0.918	C4 LL for Cast Film applications
Drip Lateral Tubing			
LL20DS010	1.40	0.920	C4 LL for Drip Lateral Applications
JD19010	1.40	0.920	C4 LL for Drip Lateral Applications

Grade	MFI (g/10 Min)	Density (g/cc)	Typical End use
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Roto Molding & Other Rigid Applications

O35042	4.30	0.935	C8 LL Septic, Chemical Storage Tanks
LL36RA045 / JLL36RA045 \$	4.50	0.936	C4 LL Overhead & Loft Tanks & Bins etc
LL40RA040	4.50	0.940	C4 LL Tanks Underground & Overhead tanks with High Rigidity

\$: UV Version Available

Power Cable Base Resin

LL24FA030/JLL24FA030	3.80	0.926	Base Resin for XLPE Compounds
X24065/JX24065	6.50	0.924	Base Resin for XLPE Compounds

Extrusion Grades

E24065 / JE24065	7.00	0.924	LL Extrusion Coating in blends with LDPE
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Injection Molding, Base resin @ Masterbatches/compounds

M24200/JM24200 \$	20.00	0.924	Lids, Base resin for Masterbatches
M24300/JM24300	30.00	0.924	Lids, Base resin for Masterbatches
M26500/JM26500 \$	50.00	0.926	Lids, TWIM & Base resin for Masterbatches

Low Density Polyethylene Grades (LDPE)

Blown, Cast Films, Thermal Lamination

22FA002 / J22FA002	0.20	0.920	Heavy Duty Bags, Canal Lininin, Green house films
1005FY20 / J1005FY20	0.60	0.920	Heavy Duty Liquid Packaging Application
24FS040/J24FS040	4.00	0.924	General Purpose Film Applications
24FA040/J24FA040	4.00	0.924	Non Slip Grade for General Purpose Lamination
1020FA20/J1020FA20	2.00	0.920	Adhesive Lamination, Foam Film

Extrusion Coating

1070LA17	7.00	0.917	Extrusion, Heat & Pressure applications
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Injection Molding

16MA400 / J16MA400	30.00	0.920	Master batches, Injection Molding
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\$ JM24200P / JM26500P: Powder Grades

Note: MFI (2.16 kg) g/10 min ASTM D1238, Note:**MFI (5kg) g/10 min

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