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RELIABILITY+ INNOVATION

PIPE SYSTEM SOLUTIONS



SABIC GLOBAL PIPE PORTFOLIO

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GLOBAL PIPE SEGMENT PORTFOLIO

MULTIMODAL HDPE

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) MI2=190/2.16 MI5=190/5 MI21=190/21.6 ISO 1133	Density kg/m3 ISO 1183	Typical Applications	Characteristics
HDPE	FJ01552	Natural	0.15 (MI2.16) 16 (MI21)	952	Irrigation pipes and tapes	Good processability
	P952	Natural	0.33 (MI5) 9 (MI21)	952	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Good processability
	P6006N	Natural	0.23 (MI5) 6.2 (MI21)	949	Potable & storm water, gas supply, sewage, corrugated and spiral systems, liner pipes	PE 4710, multi-modal, pressure pipes and good stress crack resistance (ESCR)
	P6006NA	Natural	0.23 (MI5) 6.2 (MI21)	949	Potable & storm water, gas supply, sewage, corrugated and spiral systems, liner pipes	PE 4710, multi-modal, pressure pipes and good stress crack resistance (ESCR)
	P4808N	Natural	0.23 (MI5) 6.5 (MI21)	949	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
	P4808NA	Natural	0.23 (MI5) 6.5 (MI21)	949	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
	P5305N	Natural	4.5 (MI21)	953	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
	P5307N	Natural	8 (MI21)	952	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
	P5616N	Natural	16 (MI21)	956	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
	P4909NA	Natural	0.34 (MI5)	948	Non-Pressure pipe application, irrigation, cable ducts, corrugated & gravity pipes, sheets	Multi-modal and good stress crack resistance (ESCR)
HDPE PE100	Vestolen A 6060R	Black	0.3 (MI5)	959	Potable water, gas supply, sewage, cable ducts, casing pipe, steel rope sheathing, spiral pipes	PE 100, bimodal, pressure pipes and good stress crack resistance
	Vestolen A RELY 5922R	Black	0.2 (MI5)	959	Potable water, gas supply, sewage, spiral pipes, geothermal probes	PE 100RC, bimodal, pressure pipes, resistance to crack, trenchless installation, low sagging
	Vestolen A RELY 5923R	Black	0.2 (MI5)	959	Potable water, gas supply, sewage, spiral pipes	PE 100, bimodal, pressure pipes, low sagging
	Vestolen A RELY 5924R	Black	0.23 (MI5)	959	Potable, gas supply, sewage, spiral pipes	PE 100, bimodal, pressure pipes, low sagging
	Vestolen A RELY 5944HT	Black	0.2 (MI5)	959	High voltage cable protection, Industrial pipe, Geothermal pipes, district heating pipes	Class MRS10 MPa, bimodal, pressure pipes, high temperature resistance, low sagging, resistance to crack
	Vestolen A 5933RD	Black	0.2 (MI5)	959	Potable water, resistant to disinfectants	PE 100, bimodal, pressure pipes, high disinfectant resistance, resistance to crack, low sagging
	P6006	Black	0.23 (MI5) 6.2 (MI21)	959	Potable water, gas supply, sewage, corrugated and spiral pipes	PE 100, multi-modal, pressure pipes and good stress crack resistance
	P6006AO	Orange	0.23 (MI5) 6.3 (MI21)	950	Gas pressure pipes	Class MRS11.2 MPa; multi modal for pressure pipe applications, good stress crack resistance(ESCR)
	P6006AD	Black	0.23 (MI5) 6.4 (MI21)	959	Potable water, gas supply, sewage and other fluids	Class MRS 11.2 MPa; multimodal, especially designed for pressure pipes applications, good stress crack resistance (ESCR)
HDPE PE 80	5061R	Black	0.36 (MI5)	958	Potable water, gas supply, sewage, cable ducts, casing pipe, steel rope sheathing	PE 80, bimodal, pressure pipes and good stress crack resistance
	P4200RT	Natural	0.45 (MI5) 9.5 (MI21)	947	Domestic hot and cold water, Radiator connections, Metal pipe inner liners, secondary heating, oil and gas	Classified as PERT II as well as PE100, Good stress crack resistance combined with very good long term hydrostatic strength, high heat and high extraction stability

LLDPE

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) MI2= 190 /2.16	Density kg/m3 ISO 1183	Typical Applications	Characteristics
LLDPE	128CNJ	Natural	1	928	Telecommunication cables, electrical conduits and drip & irrigation pipes	Combining stiffness, toughness, high melt strenght with an excellent processability due to its broad molecular weight distribution
	P438J	Natural	0.4	938	Cylindrical and tap drip irrigation pipes	Excellent processability with a high level of consistency; exceptional mechanical properties and stress crack resistance

POLYPROPYLENE

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) 230 / 2.16 ISO 1133	Density kg/m3 ISO 1183	Typical Applications	Characteristics
PP- Random Copolymer	Vestolen P9421 00901	Natural	0.3	898	Domestic hot and cold water, underfloor heating and cooling pipes	Natural, PP-R, high temperature resistance, long track records
	Vestolen P9421 66408	Green	0.3	898	Domestic hot and cold water, underfloor heating and cooling pipes	Green, PP-R, high temperature resistance, long track records
	Vestolen P9421 66409	Green	0.3	898	Domestic hot and cold water, underfloor heating and cooling pipes	Green, PP-R, high temperature resistance, long track records
	Vestolen P9421 66410	Green	0.3	898	Domestic hot and cold water, underfloor heating and cooling pipes	Green, PP-R, high temperature resistance, long track records
	Vestolen P9421 67727	Grey	0.3	898	Domestic hot and cold water, underfloor heating and cooling pipes, industrial pipes	Grey, PP-R, high temperature resistance, long track records
	XR19030E	Natural	0.3	905	Industrial sheets, industrial pipes, domestic sewage pipes	Good balance between stiffness and impact resistance, elevated heat stability, good processability. No stress whitening
	XR20036E	Natural	0.3	905	Industrial sheets, industrial pipes, domestic sewage pipes	Good impact resistance, elevated heat stability, good processability

POLYPROPYLENE

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) 230 / 2.16 ISO 1133	Density kg/m3 ISO 1183	Typical Applications	Characteristics
PP-Homo Polymer	PP531Ph	Natural	0.3	905	Domestic sewage pipes, industrial sheets	High stiffness, elevated temperature resistance, good flowability
	PP535P	Natural	0.5	905	Domestic sewage pipes and fittings, industrial sheets	High stiffness, elevated temperature resistance, good flowability

POLYPROPYLENE

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) 230 / 2.16 ISO 1133	Density kg/m3 ISO 1183	Typical Applications	Characteristics
PP-Impact Copolymer	RELY 61EK61PS	Natural	0.3	905	Sewage & drainage pipes, manholes, corrugated pipes	Good balance between high cold impact resistance and high stiffness,
	RELY 71EK71PS	Natural	0.3	905	Sewage & drainage pipes, manholes, corrugated pipes	Good balance between high cold impact resistance and medium stiffness
	83EK10	Natural	1.2	905	Fittings & Manholes, corrugated pipes	Good impact strength and low flow properties
	83MF10	Natural	1.8	905	Fittings & Manholes	Good impact strength and moderate flow properties
	50EK75S	Natural	0.3	905	Sewage & drainage pipes, manholes	Good balance between stiffness and cold impact
	80EK20S	Natural	0.8	905	Fittings & Manholes	Good flowability and balance between impact and stiffness

PVC (Polyvinyl Chloride)

	Grades	K-Value	Typical Applications	Characteristics
PVC	67S	67	Pressure and non-pressure pipe profiles Corrugated tubes and conduits	Very low dust-level, high purity, high bulk density, narrow particle size distribution
	57S	57	Domestic sewage pipes and fittings, industrial sheets	Low content of fines, high tensile properties, narrow particle size distribution

PO COMPOUND

	Grades	Colour	Melt Mass-Flow Rate (g/10 min) MI2= 190 /2,16 MI5=190/5 MI21=190/21, 6 ISO 1133	Density kg/m3	Typical Applications	Characteristics
Compound	G1620B	Natural	0.3 (230/2.16)	1030	Domestic hot and cold water	20% Glass fibers, for multi-layer pipe applications, good processability, reduced coefficient of thermal elongation
	P1600A	Natural	2.1 (MI5) 28.3 (MI21)	892	Inner layer for industrial and mining pipes	High abrasion resistance, good processability, and good compatibility with HDPE pipes
	19T1030	Natural	18.2 (230/2.16)	1160	Infiltration boxes, stormwater management	Mineral filled, high flow, high stiffness, heat stabilized

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