

PIPE | HCPP Block Copolymer

● Description

- BP2000 has good stiffness and impact strength at low temperature, and is fit for cold water and drain pipes.

● Features

- Good Creep Resistance
- High Stiffness and Impact Resistance at Low Temperature

● Features and Uses per product

Grade	MI	Features	Uses
BP2000	0.25	High Stiffness and Impact Resistance at Low Temperature, Creep Resistance, Good Chemical Resistance, Color : Natural, Gray, Yellow	RoHS
BP2100	0.3	High Stiffness and Impact Resistance at Low Temperature, Creep Resistance, Good Chemical Resistance	Water Supply and Drain Pipes
BP2200	0.3	High Modulus, High Stiffness and Impact Resistance at Low Temperature, Creep Resistance, Good Chemical Resistance	

● Properties

Properties	Test Methods	Units	BP2000	BP2100	BP2200
Melt Index	ASTM D1238	g/10min.	0.25	0.3	0.3
Density	ASTM D1505	g/cm ³	0.91	0.91	0.91
Tensile Strength at Yield	ASTM D638	kg _f /cm ²	240	300	340
Elongation at Break	ASTM D638	%	>600	>300	>300
Flexural Modulus	ASTM D790	kg _f /cm ²	13,000	14,000	18,000
Hardness (Rockwell)	ASTM D785	R Scale	80	80	87
Impact Strength (Izod with notch)	ASTM D256	kg _f cm/cm	NB	NB	NB
Softening Point (Vicat)	ASTM D1525	°C	155	165	165
Oxidation Induction Time at 200°C	ASTM D3895	min	>30	>30	>30
Heat Deflection Temperature	ASTM D648	°C	98	98	98

● Certification and Other Special Features

Grade	Certification	Institute of validation
BP2000 GR	Material Test	中国国家化学建筑材料测试中心
	Sanitary Test	中国预防医学院环境卫生监测所

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PIPE | Random Copolymer

● Description

- RP2400, the first PP112 class product in the world, is a Random Copolymer product for high-pressure.
- This is used for pressure pipes and hot water and floor heating pipes due to good processability, flexibility and pressure resistance.

● Features

- Ultra High Pressure Resistance and Good Processability
- High Flexibility and Heat Resistance

● Features and Uses per product

Grade	MI	Features	Uses
RP2400	0.25	Processability, High Pressure Rating, Good Flexibility, Color : Natural, White, Gray, Green, Dark Green	RoHS Pressure Pipes, Hot Water and Floor Heating Pipes

● Properties

Properties	Test Methods	Units	RP2400
Melt Index	ASTM D1238	g/10min.	0.25
Density	ASTM D1505	g/cm ³	0.9
Tensile Strength at Yield	ASTM D638	kg _f /cm ²	230
Elongation at Break	ASTM D638	%	>600
Flexural Modulus	ASTM D790	kg _f /cm ²	8,500
Hardness (Rockwell)	ASTM D785	R Scale	72
Impact Strength (Izod with notch)	ASTM D256	kg _f cm/cm	NB
Melting Point	ASTM D3418	°C	139
Softening Point (Vicat)	ASTM D1525	°C	133
Oxidation Induction Time at 200°C	ASTM D3895	min	>30
Heat Deflection Temperature	ASTM D648	°C	85
Minimum Require Strength	ISO 9080	Mpa	11.2

● Certification and Other Special Features

Grade	Certification	Institute of validation
RP2400	Long Term Hydrostatic strength (ISO 9080)	Bodycote Polymer
	Material Test	中国国家化学建筑材料测试中心
	Sanitary Test	中国预防医学院环境卫生监测所
	WRAS (for hot & cold water)	WRc-NSF
	Korean World-class Product of 2005	The Ministry of Commerce, Industry and Energy

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SHEET | HCPP Homo Polymer

Description

- HS3045 has better stiffness and heat resistance than general products for sheet, and is fit for thin-wall products and special sheets.

Features

- High Stiffness and Heat Resistance

Features and Uses per product

Grade	MI	Features	Uses
HS3045	0.45	Thermoformability, Heat Resistance, High Stiffness RoHS	Compression Molding Goods, Vacuum Forming Goods, Food Tray

Properties

Properties	Test Methods	Units	HS3045
Melt Index	ASTM D1238	g/10min.	0.45
Density	ASTM D1505	g/cm ³	0.91
Water Absorption	ASTM D570	%	<0.01
Tensile Strength at Yield	ASTM D638	kg _f /cm ²	410
Elongation at Break	ASTM D638	%	>100
Flexural Modulus	ASTM D790	kg _f /cm ²	21,000
Hardness (Rockwell)	ASTM D785	R Scale	110
Impact Strength (Izod with notch)	ASTM D256	kg _f cm/cm	6
Softening Point (Vicat)	ASTM D1525	°C	153
Heat Deflection Temperature	ASTM D648	°C	135

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SHEET | HSPP Block Copolymer

Description

- SB1930 is fit for corrugated cardboards and sheets due to good balance of stiffness and impact resistance.

Features

- Good Mechanical Strength and Heat Resistance
- High Impact Resistance

Features and Uses per product

Grade	MI	Features	Uses
SB1930	0.5	High Impact Strength, High Stiffness RoHS	Corrugated Cardboards, General Sheets, Stationery Sheets, Packaging Sheets, Vacuum Molding Sheets

Properties

Properties	Test Methods	Units	SB1930
Melt Index	ASTM D1238	g/10min.	0.5
Density	ASTM D1505	g/cm ³	0.91
Water Absorption	ASTM D570	%	<0.01
Tensile Strength at Yield	ASTM D638	kg _f /cm ²	270
Elongation at Break	ASTM D638	%	>400
Flexural Modulus	ASTM D790	kg _f /cm ²	13,000
Hardness (Rockwell)	ASTM D785	R Scale	84
Impact Strength (Izod with notch)	ASTM D256	kg _f cm/cm	70
Softening Point (Vicat)	ASTM D1525	°C	154
Heat Deflection Temperature	ASTM D648	°C	100

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