

POLYPROPYLENE

FY4012E

Polypropylene Homopolymer for Yarn/Raffia

Description

FY4012E is a polypropylene homopolymer intended for yarn extrusion. Yarn made from this resin exhibits high strength tape and low shrinkage.

Applications

- Woven sacks
- Carpet packing
- Binding tape
- Monofilament

Resin Properties	Unit	Test Method	Typical Value
MFR (230°C/2.16Kg)	g/10min	ASTM D1238	4.0
Density	g/cm ³	ASTM D792 Method A	0.9
Mechanical Properties*			
Tensile Strength at Yield	MPa	ASTM D638	32
Tensile Elongation at Yield	%	ASTM D638	9.0
Tensile Strength at Break	MPa	ASTM D638	18
Tensile Elongation at Break	%	ASTM D638	110
Flexural Modulus	MPa	ASTM D790	1300
Izod Impact, Notched 23deg.C	kJ/m ²	ASTM D256	3.0
Rockwell Hardness		ASTM D785	99
Thermal Properties*			
Vicat Softening Temperature @10N	°C	ASTM D1525	152

*Test specimen preparation method: Compliant with ASTM D 4101.

Processing conditions: Recommended Extrusion Temperature: 230 – 260 °C, Stretching Temperature: 140 – 160 °C and Stretching Ratio 4-6.

Storage and handling: FY4012E should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C. It is advisable to process polypropylene resins within 6 months after delivery.

Food Contact Compliance and other Regulations: Please visit Petro Rabigh website.

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