

# 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 <sup>3</sup>	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 <sup>2</sup>	ASTM D256	3.0
Rockwell Hardness		ASTM D785	99
Thermal Properties*			
Vicat Softening Temperature @10N	°C	ASTM D1525	152

\*Test specimen preparation Method: Pursuant to ASTM D4101

**Processing conditions:** Recommended Extrusion Temperature: 230-260 °C

Stretching Temperature: 140-160 °C

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.