

Petro Rabigh PP FY4012E

Polypropylene Homopolymer
Rabigh Refining & Petrochemical Co.

Message:

FY4012E is a homopolymer polypropylene intended for Yarn extrusion. Yarn made from this resin exhibits high denier strength, high anti splitting and low heat shrinkage.

Applications

Woven sacks

Woven cloths

Binding tape

Monofilament

General Information			
Features	High strength		
	Homopolymer		
Uses	Strap		
	Bags		
	monofilament		
	Line		
	Fabric		
Processing Method	Filament extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	32.0	MPa	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	110	%	ASTM D638
Flexural Modulus	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	3.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	152	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	

Melt Temperature	250	°C
Extrusion instructions		
Stretching Temperature: 155°CStretching Ratio: 4 to 6		
NOTE		
1.	压力1 (10N)	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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