

POLYPROPYLENE

FS2011E

Polypropylene Homopolymer for Biaxially Oriented Film

Description

FS2011E is a polypropylene homopolymer intended for the extrusion of biaxially oriented film. It is easy to process and suitable for metallization. The film made from this resin exhibits excellent transparency, excellent mechanical and barrier properties.

Applications

- Food packaging
- Printing lamination
- Adhesive tape
- Stationary Packaging
- Metalized film

Resin Properties	Unit	Test Method	Typical Value	
MFR (230°C/2.16Kg)	g/10min	ASTM D1238	2.2	
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	19	
Tensile Elongation at Break	%	ASTM D638	155	
Flexural Modulus	MPa	ASTM D790	1280	
Flexural Strength	MPa	ASTM D790	34	
Izod Impact, Notched 23deg.C	kJ/m ²	ASTM D256	2.9	
Rockwell Hardness		ASTM D785	98	
Film Properties**				
Tensile Strength at Break	MD	MPa	ASTM D882	110
	TD			215
Tensile Elongation at Break	MD	%	ASTM D882	85
	TD			17
1% Secant Modulus	MD	MPa	ASTM D882	2050
	TD			3700
Haze	%	ASTM D1003	0.2	
Gloss 45-degree	--	ASTM D2457	155	
Thermal Properties*				
Vicat Softening Temperature @10N	°C	ASTM D1525	153	

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

**Film processing conditions: Single layer film produced by sequential bi-axially oriented film machine, MDO stretching ratio is 5, TDO stretching ratio is 8, Film thickness 20 µm.

Processing conditions: Recommended Extrusion Temperature: 190 – 250 °C

Stretching Temperature: 130 – 160°C

Stretching Ratio MD/TD: 4 – 7 / 7 – 10

Storage and handling: FS2011E 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.