

PR/MKP/QAC/F-077 Rev. No.: 2.0 Reference Document No.: PR_MKP_QAC_P-001 January 2020

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/cm³	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/m²	ASTM D256	2.9
Rockwell Hardness			ASTM D785	98
Film Properties**				
Tensile Strength at Break	MD	MPa	ASTM D882	110
	TD	IVII a		215
Tensile Elongation at Break	MD	%	ASTM D882	85
	TD	,,		17
1% Secant Modulus	MD	MPa	ASTM D882	2050
	TD	4		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.

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^{**}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.



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Processing conditions: Recommended Extrusion Temperature: 190 – 250 °C, Stretching Temperature: 130 – 160 °C and 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.

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