

ExxonMobil™ PP

(previously Escorene PP)

PP5012F1

PP5012F1 is a polypropylene homopolymer of low melt flow rate for injection moulding, tape and raffia.

Physical properties	Test Method (based on)	Unit	Typical Value
Melt Flow Rate (230 °C, 2.16 kg)	ISO 1133	g/10 min	2.9

Mechanical properties ⁽¹⁾

Tensile Strength at Yield (50 mm/min)	ISO R 527-2/1B/50	MPa	34
Elongation at Yield (50 mm/min)	ISO R 527-2/1B/50	%	10
Elastic Modulus (1 mm/min) (0.05 - 0.25%)	ISO R 527-2/1B/1	MPa	1500
Flexural Modulus (2 mm/min) (0.05 - 0.25%)	ISO 178	MPa	1400
IZOD Impact (notched at 23 °C)	ISO 180-4A	kJ/m ²	3.7
Hardness (15 sec)	ISO 868 ASTM D2240	Shore D	70

Thermal properties ⁽¹⁾

Vicat Softening Point (Loading 10N)	ISO 306A	°C	158
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Typical values measured on injection moulded specimens, produced according to ISO 1873-2 and conditioned at 23 °C and 50% relative humidity, according to ISO 291.