

ExxonMobil™ PP

PP 5032E1

Product Description

PP 5032E1 is a Polypropylene Homopolymer type, designed for the production of tapes and monofilaments.

PP 5032E1 combines good processability on water-bath and chill-roll with excellent mechanical properties.

PP 5032E1 is particularly suitable for the production of monofilaments and tapes for the textile industry, e.g. carpet backing, woven sacks, geotextiles and fibrillated tapes for ropes and twines in the packaging, agriculture and fishing industries.

Food law compliance

Most of the ExxonMobil Polypropylene grades do comply with various food contact regulations in Europe and the USA (FDA).

Contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification.

Typical Properties

	Test Method	Unit	Value
Resin properties			
(based on)			
Melt Flow Rate (230°C, 2.16 kg)	ASTM D 1238	g/10 min	3
Melting Point (DSC)	ASTM D 3418	°C	161
Vicat Softening Point (1 kg)	ISO 306A	°C	152
Mechanical properties *			
Tensile Strength at Yield	ISO 527-2/1B/50	MPa	34
Elongation at Yield	ISO 527-2/1B/50	%	10
Flexural Modulus (0.05 - 0.25 %; 2 mm/min)	ISO 178	MPa	1420
IZOD Impact (notched, 23 °C)	ISO 180-4A	kJ/m ²	4.5
Shore Hardness - D (15 sec.)	ISO 868	-	70

* Mechanical properties were measured on injection moulded specimen, prepared according to ISO 1873-2.