

ExxonMobil™ PP1304E6

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for injection molding applications requiring excellent flow and good mechanical properties. It is suitable for general purpose applications such as toys, household goods, caps and closures.

General

Availability ¹	▪ Asia Pacific	
Uses	▪ Caps ▪ Closures	▪ Household Goods ▪ Toys
Appearance	▪ Natural Color	
Form(s)	▪ Pellets	
Processing Method	▪ Compounding	▪ Injection Molding
Revision Date	▪ 10/01/2018	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	4900 psi	33.8 MPa	ASTM D638
Tensile Stress at Yield	4630 psi	31.9 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	9.9 %	9.9 %	ASTM D638
Tensile Strain at Yield	9.9 %	9.9 %	ISO 527-2/50
Tensile Modulus - Chord	212000 psi	1460 MPa	ISO 527-1/1
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	194000 psi	1340 MPa	ASTM D790A
0.51 in/min (13 mm/min)	228000 psi	1570 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	197000 psi	1360 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.51 ft-lb/in	27 J/m	ASTM D256A
Notched Izod Impact Strength (73°F (23°C))	1.6 ft-lb/in ²	3.4 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.1 ft-lb/in ²	2.3 kJ/m ²	ISO 179/1eA
Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC	904 in-lb	102 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa) Flatwise	117 °F	47.4 °C	ExxonMobil Method
Heat Deflection Temperature (0.45 MPa) Flatwise	170 °F	76.4 °C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	192 °F	88.9 °C	ExxonMobil Method
DTUL (66 psi) - Annealed	235 °F	113 °C	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	105	105	ASTM D785
Shore Hardness (15 sec)	69	69	ISO 868

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Polypropylene Homopolymer**Legal Statement**

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

For detailed Product Stewardship information, please contact Customer Service

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: [Contact Us](#)

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