

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		Household Goods		
	Closures		Toys		
Appearance	Natural Color				
Form(s)	Pellets				
Processing Method	Compounding		Injection Molding		
Revision Date	10/01/2018				
Physical	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg	/ /	g/10 min	/ 1	g/10 min	ASTM D1238
Density	<u></u>	g/cm ³		g/cm ³	ASTM D1505
		<u> </u>		<u> </u>	
1echanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	4900	psi	33.8	MPa	
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 527-2/1
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	194000	•	1340		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
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact (73°F (23°C))		ft·lb/in	/ 1	J/m	ASTM D256A
Notched Izod Impact Strength (73°F (23°C))	1.6	ft·lb/in²	3.4	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.1	ft·lb/in²	2.3	kJ/m²	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)	117	°F	47.4	°C	ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	170	°F	76.4	°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	192	°F	88.9	°C	ASTM D648
DTUL @ 66psi - Annealed	235	°F	113	°C	ASTM D648
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Based On
Rockwell Hardness	105	,	105		ASTM D785
Shore Hardness (15 sec)	69		69		ISO 868

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.

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