

ExxonMobil™ PP1304E4

Polypropylene Homopolymer

ExxonMobil Chemical

Message:

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 Information			
UL YellowCard	E225564-101619162		
Uses	Shield		
	Household goods		
	Shell		
	Toys		
Appearance	Natural color		
Forms	Particle		
Processing Method	Composite		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	107		ASTM D785
Durometer Hardness (15 sec)	67		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Chord	1580	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	35.2	MPa	ASTM D638
Yield	33.4	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	9.4	%	ASTM D638
Yield	7.1	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1500	MPa	ASTM D790A
1% secant ⁴	1770	MPa	ASTM D790B
-- ⁵	1430	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.2	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	22	J/m	ASTM D256A

23°C	3.1	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (23°C, 3.18 mm)	9.73	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	92.4	°C	ASTM D648
0.45 MPa, not annealed	80.6	°C	ISO 75-2/Bf
0.45 MPa, annealed	114	°C	ASTM D648
1.8 MPa, not annealed	52.0	°C	ISO 75-2/Af

Legal statement

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NOTE

- | | |
|----|-------------|
| 1. | 51 mm/min |
| 2. | 51 mm/min |
| 3. | 1.3 mm/min |
| 4. | 13 mm/min |
| 5. | 2.0 mm/min |
| 6. | Geometry GC |

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