ExxonMobil™ PP7414

Polypropylene Impact Copolymer

Product Description

A medium impact strength copolymer resin designed for injection-molded automotive applications requiring medium melt flow rate.

General

Availability [1]	▪ Europe	▪ Latin America	▪ North America
Features	▪ Impact Modified	▪ Medium Flow	▪ Medium Impact Resistance
Uses	▪ Automotive Applications ▪ Compounding	▪ Consumer Applications ▪ Toys	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 04/01/2020		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	3300	psi	22.8	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	5.8	%	5.8	%	ASTM D638
Flexural Modulus					
--	168000	psi	1160	MPa	ExxonMobil Method
1% Secant : 0.051 in/min (1.3 mm/min)	169000	psi	1160	MPa	ASTM D790A
1% Secant : 0.51 in/min (13 mm/min)	194000	psi	1340	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					
--	3.0	ft·lb/in	160	J/m	ExxonMobil Method
0°F (-18°C)	0.80	ft·lb/in	43	J/m	ASTM D256A
73°F (23°C)	3.1	ft·lb/in	170	J/m	ASTM D256A
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	221	in·lb	25.0	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	180	°F	82.1	°C	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	86	86	ASTM D785

Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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

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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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