

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

Features	▪ Impact Modified	▪ Medium Flow	▪ Medium Impact Resistance
Uses	▪ Automotive Applications	▪ Consumer Applications	
	▪ Compounding	▪ Toys	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		

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/cm ³	0.900 g/cm ³	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)	3220 psi	22.2 MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	6.2 %	6.2 %	ASTM D638
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	150000 psi	1030 MPa	ASTM D790A
0.51 in/min (13 mm/min)	171000 psi	1180 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	3.3 ft-lb/in	180 J/m	ASTM D256A
Gardner Impact			ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	212 in-lb	24.0 J	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	185 °F	85.1 °C	ASTM D648

