Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil Signature Polymers

# 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<br>▪ Compounding | ▪ Consumer Applications<br>▪ 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.



Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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

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