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

Product Datasheet

ExxonMobil Signature Polymers

# ExxonMobil™ PP7032E2

## Polypropylene Impact Copolymer

### Product Description

A high crystallinity, high impact copolymer resin designed for injection molding, extrusion and thermoforming applications.

### General

| | | | |
|---|---|---|---|
| Availability [1] | ▪ North America | | |
| Features | ▪ Good Colorability<br>▪ Good Dimensional Stability | ▪ Good Thermal Stability<br>▪ Medium Flow | |
| Uses | ▪ Automotive Applications<br>▪ Caps | ▪ Closures<br>▪ Compounding | ▪ Packaging<br>▪ Rigid Packaging |
| Appearance | ▪ Natural Color | | |
| Form(s) | ▪ Pellets | | |
| Processing Method | ▪ Injection Molding | | |
| Revision Date | ▪ 12/01/2017 | | |

| Physical | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0 | g/10 min | 4.0 | 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) | 3480 | psi | 24.0 | MPa | |
| Tensile Stress at Yield | 3390 | psi | 23.4 | MPa | ISO 527-2/50 |
| Elongation at Yield (2.0 in/min (51 mm/min)) | 6.4 | % | 6.4 | % | ASTM D638 |
| Tensile Strain at Yield | 6.2 | % | 6.2 | % | ISO 527-2/50 |
| Flexural Modulus - 1% Secant | | | | | |
| 0.051 in/min (1.3 mm/min) | 164000 | psi | 1130 | MPa | ASTM D790A |
| 0.51 in/min (13 mm/min) | 188000 | psi | 1300 | MPa | ASTM D790B |
| Flexural Modulus (0.079 in/min (2.0 mm/min)) | 165000 | psi | 1140 | MPa | ISO 178 |

| Impact | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Notched Izod Impact (0°F (-18°C)) | 1.3 | ft·lb/in | 69 | J/m | ASTM D256A |
| Notched Izod Impact Strength | | | | | ISO 180/1A |
| -40°F (-40°C) | 3.0 | ft·lb/in² | 6.3 | kJ/m² | |
| -4°F (-20°C) | 3.4 | ft·lb/in² | 7.2 | kJ/m² | |
| 73°F (23°C) | 21 | ft·lb/in² | 45 | kJ/m² | |
| Charpy Notched Impact Strength | | | | | ISO 179/1eA |
| -22°F (-30°C) | 3.0 | ft·lb/in² | 6.4 | kJ/m² | |
| -4°F (-20°C) | 3.2 | ft·lb/in² | 6.8 | kJ/m² | |
| 32°F (0°C) | 4.5 | ft·lb/in² | 9.5 | kJ/m² | |
| 73°F (23°C) | 23 | ft·lb/in² | 48 | kJ/m² | |
| Gardner Impact | | | | | ASTM D5420 |
| -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC | 219 | in·lb | 24.7 | J | |

| Thermal | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Heat Deflection Temperature (1.80 MPa) | 120 | °F | 48.7 | °C | ISO 75-2/Af |
| Heat Deflection Temperature (0.45 MPa) | 171 | °F | 77.4 | °C | ISO 75-2/Bf |
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 180 | °F | 82.1 | °C | ASTM D648 |
| DTUL (66 psi) - Annealed | 230 | °F | 110 | °C | ASTM D648 |

| Hardness | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Rockwell Hardness | 87 | | 87 | | ASTM D785 |



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## Legal Statement

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

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.

## 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.

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

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