

# Heavy-duty industrial and consumer applications

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## Key advantages

- Excellent stiffness and impact strength
- Cost reduction opportunities
- Improved part performance

## Super tough resin

Ideal for use in demanding heavy-duty applications, ExxonMobil™ PP7032KN is a polypropylene (PP) impact copolymer resin (MFR 4 g/10 min) designed to deliver a combination of excellent stiffness and impact resistance.

Typical heavy duty applications using ExxonMobil PP7032KN include:

- Heavy-duty pallets and crates
- Industrial pails and floor mats
- Toys and luggage parts
- Housewares and furniture

## Potential for lower costs

The outstanding mechanical properties of ExxonMobil PP7032KN offer material cost saving opportunities through part weight reduction.

Fast crystallization and easy mold release can result in lower cycle times.

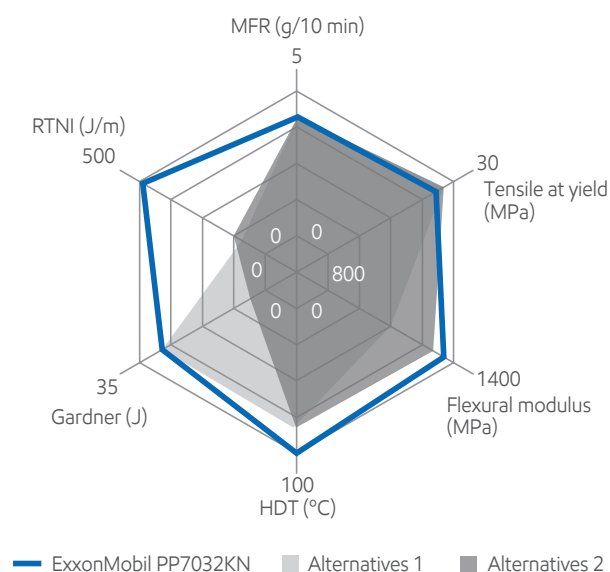
## Improved finished product performance

Finished products made with ExxonMobil PP7032KN exhibit excellent stiffness, toughness, creep resistance and dimensional stability.

Compared to alternative grades, ExxonMobil™ PP7032KN delivers excellent impact and stiffness properties:

- Good stiffness/impact balance
- Outstanding cold temperature impact
- Excellent stiffness for good stackability

Figure 1: Selected property data for ExxonMobil PP7032KN and the industry alternatives.



## Typical properties

ExxonMobil PP7032KN	Test conditions	Test based on ASTM method	Units	Typical value
Melt flow ratio (MFR)	230°C/2.16 kg	D1238	g/10 min	4
Tensile strength at yield	51 mm/min	D638	MPa	26
Flexural modulus - 1% secant	1.3 mm/min	D790A	MPa	1340
Heat deflection temperature (HDT)	0.45 MPa - unannealed	D648	°C	97
Gardner impact - geometry GC	-29°C, 3.18 mm	D5420	J	30
Notched Izod impact (RTNI)	23°C	D256A	J/m	No break

Values given are typical and should not be interpreted as specifications.  
Data generated by or on behalf of ExxonMobil Chemical

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