

# Toler PP PP9020

Polypropylene Random Copolymer

Toler Chemical, Inc

## Message:

PP9020 clarified, polypropylene random copolymer resin is designated for injection molding. PP9020 resin is available in pellet form.

| General Information                                      |                                   |                   |             |
|--|-----------------------------------|-------------------|-------------|
| Features   | Good Colorability                 |                   |             |
|  | Good Surface Finish               |                   |             |
|  | High Clarity                      |                   |             |
|  | Low Temperature Impact Resistance |                   |             |
|  | Random Copolymer                  |                   |             |
| Uses   | Containers                        |                   |             |
|  | Household Goods                   |                   |             |
| Appearance   | Clear/Transparent                 |                   |             |
| Forms  | Pellets                           |                   |             |
| Processing Method  | Injection Molding                 |                   |             |
| Physical   | Nominal Value                     | Unit              | Test Method |
| Specific Gravity   | 0.900                             | g/cm <sup>3</sup> | ASTM D792B  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 18 to 22                          | g/10 min          | ASTM D1238  |
| Hardness   | Nominal Value                     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                              | 75 to 85                          |                   | ASTM D785   |
| Mechanical   | Nominal Value                     | Unit              | Test Method |
| Tensile Strength (Yield, Injection Molded)               | 29.0                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield, Injection Molded)             | 11                                | %                 | ASTM D638   |
| Flexural Modulus - 1% Secant                             |                                   |                   |             |
| Injection Molded <sup>1</sup>                            | 1070 to 1140                      | MPa               | ASTM D790A  |
| Injection Molded <sup>2</sup>                            | 1210 to 1280                      | MPa               | ASTM D790B  |
| Impact   | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (23°C, Injection Molded)             | 64                                | J/m               | ASTM D256A  |
| Thermal  | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 93.0                              | °C                | ASTM D648   |
| NOTE   |                                   |                   |             |
| 1.   | 1.3 mm/min                        |                   |             |
| 2.   | 13 mm/min                         |                   |             |

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