

# L12Z-00 Polypropylene Impact Copolymer

L12Z-00 is a nucleated, antistated impact copolymer with an excellent balance of high stiffness, good impact and fast injection cycles intended for use in the production of consumer products, appliances, office furniture, toys and juvenile products. This material has been recognized by UL for sustained use at 65°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

## Typical Properties<sup>1</sup>

|                                   | Values         |                        | ASTM Method |
|-----------------------------------|----------------|------------------------|-------------|
|                                   | English Units  | SI Units               |             |
| <b>Resin</b>                      |                |                        |             |
| Density                           | —              | 0.903 g/cc             | D792        |
| Melt Flow Rate, 230°C/2.16 kg     | —              | 12 g/10 min            | D1238       |
| <b>Injection Molded Sample</b>    |                |                        |             |
| Tensile Strength (2 in/min)       |                |                        | D638        |
| @ Yield                           | 4,077 psi      | 28.1 MPa               |             |
| @ Break                           | 2,717 psi      | 18.7 MPa               |             |
| Elongation (2 in/min)             |                |                        | D638        |
| @ Yield                           | —              | 5.4 %                  |             |
| @ Break                           | —              | 110%                   |             |
| Flexural Modulus                  |                |                        | D790A       |
| 1% Secant                         | 213,000 psi    | 1,470 MPa              |             |
| Notched Izod Impact Strength      |                |                        | D256        |
| @ 23 C                            | 2.63 ft-lbf/in | 13.8 kJ/m <sup>2</sup> |             |
| @ -20 C                           | 0.88 ft-lbf/in | 4.62 kJ/m <sup>2</sup> |             |
| Hardness                          |                |                        |             |
| Rockwell R                        | 91             | 91                     | D785        |
| Vicat Temperature                 | 303 F          | 151 C                  | D1525       |
| Deflection Temperature            |                |                        | D648        |
| @ 66 psi (455 kPa)                | 231 F          | 110 C                  |             |
| @ 264 psi (1,820 kPa)             | 134 F          | 57 C                   |             |
| Gloss at 60° angle                |                | 75 %                   | D2457       |
| Instrumented Impact               |                |                        | D3763       |
| @ 23 C                            | Ductile        | Ductile                |             |
| @-20 C                            | Mixed          | Mixed                  |             |
| UL Recognition (1.5 mm thickness) |                |                        | UL94        |
| Relative Temperature Index        | 149 F          | 65 C                   |             |
| Flammability Classification       | —              | HB                     |             |

<sup>1</sup> Typical properties will vary and are not to be used for specifications.