

## PRODUCT DESCRIPTION

PE HD85612 IM is a high-density hexene copolymer with a narrow molecular weight distribution. The enhanced properties and anti-UV formulation give the product an advantageous combination of physical and mechanical characteristics. Articles produced from this grade show high rigidity, good impact strength and a glossy surface finish.

## TYPICAL APPLICATIONS

PE HD85612 IM is recommended for Injection Molding applications such as crates, recycle bins, hardhats and general purpose items.

| Properties                   | Conditions     | Method     | Typical values* | Units             |
|------------------------------|----------------|------------|-----------------|-------------------|
| <b>Rheology</b>              |                |            |                 |                   |
| Melt Flow Rate               | 190 °C/2.16 kg | ISO 1133-1 | 8.5             | g/10 min          |
| <b>Physical</b>              |                |            |                 |                   |
| Density                      |                | ISO 1183   | 0.961           | g/cm <sup>3</sup> |
| <b>Mechanical</b>            |                |            |                 |                   |
| Tensile Stress at Yield      |                | ISO 527-1  | 32              | MPa               |
| Elongation at Break          |                | ISO 527-1  | 1100            | %                 |
| Flexural Modulus             |                | ISO 178    | 1500            | MPa               |
| <b>Impact</b>                |                |            |                 |                   |
| ESCR                         | F50, 100%      | ASTM D1693 | 50              | hours             |
| Notched Izod Impact Strength | 23 °C          | ASTM D256  | 3,5             | kJ/m <sup>2</sup> |
| <b>Thermal</b>               |                |            |                 |                   |
| Vicat Softening Temperature  | 10 N           | ISO 306    | 127             | °C                |

\*The values given are typical values measured on the product. These values should not be considered as specification.