



## Moplen EP300U

### Polypropylene, Impact Copolymer

#### Product Description

Moplen EP300U is a very high flow heterophasic copolymer used for injection molding. Moplen EP300U features an excellent balance between easy processing and good impact strength. The main applications of Moplen EP300U are thin-walled injection moulding applications and technical compounds. Moplen EP300U is not intended for use in medical and pharmaceutical applications.

#### Product Characteristics

|                                      |  |
|--------------------------------------|--|
| <b>Status</b>                        | Commercial: Active                             |
| <b>Test Method used</b>              | ISO  |
| <b>Availability</b>                  | Europe, Africa-Middle East                     |
| <b>Processing Methods</b>            | Extrusion Compounding, Injection Molding       |
| <b>Typical Customer Applications</b> | TWIM Food Containers, TWIM Non-food Containers |

| Typical Properties   | Method        | Value             | Unit  |
|--|---------------|-------------------|---|
| <b>Physical</b>  |               |                   |   |
| Density  | ISO 1183      | 0.9               | g/cm <sup>3</sup>   |
| Melt flow rate (MFR) (230°C/2.16kg)  | ISO 1133      | 70                | g/10 min  |
| <b>Mechanical</b>  |               |                   |   |
| Tensile Modulus  | ISO 527-1, -2 | 1200              | MPa   |
| Tensile Stress at Yield  | ISO 527-1, -2 | 24                | MPa   |
| Tensile Strength at Yield  | ISO 8986-2    | 7                 | %   |
| Tensile Strength at Break  | ISO 8986-2    | 50                | %   |
| <b>Impact</b>  |               |                   |   |
| Charpy unnotched impact strength<br>(23 °C, Type 1, Edgewise)<br><i>Note: no break</i><br>(0 °C, Type 1, Edgewise)<br>(-20 °C, Type 1, Edgewise) | ISO 179       | 177<br>142<br>100 | kJ/m <sup>2</sup><br>kJ/m <sup>2</sup><br>kJ/m <sup>2</sup> |
| Charpy notched impact strength<br>(23 °C, Type 1, Edgewise, Notch A)<br>(0 °C, Type 1, Edgewise, Notch A)<br>(-20 °C, Type 1, Edgewise, Notch A) | ISO 179       | 7.1<br>4.0<br>3.1 | kJ/m <sup>2</sup><br>kJ/m <sup>2</sup><br>kJ/m <sup>2</sup> |
| Ductile/Brittle transition temperature   | ISO 6603-2    | <-50              | °C  |
| <b>Thermal</b>   |               |                   |   |
| Heat deflection temperature B (0.45 MPa)<br>Unannealed   | ISO 75B-1, -2 | 71                | °C  |
| Vicat softening temperature<br>(A50 (50°C/h 10N))<br>(B50 (50°C/h 50N))  | ISO 306       | 144<br>62         | °C<br>°C  |

#### Notes

Typical properties; not to be construed as specifications.