

**Terlux® HD 2812**  
**MABS**

INEOS Styrolution

Terlux® HD 2812 is an easy-flowing injection molding grade based on a MABS polymer. Terlux® HD 2812 offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions. Food contact statements are available on request.

| Rheological properties     | Value | Unit                   | Test Standard |
|----------------------------|-------|------------------------|---------------|
| <b>ISO Data</b>            |       |                        |               |
| Melt volume-flow rate, MVR | 8     | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                | 220   | °C                     | -             |
| Load                       | 10    | kg                     | -             |

| Mechanical Properties                   | Value | Unit              | Test Standard |
|-----------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                         |       |                   |               |
| Tensile Modulus                         | 1900  | MPa               | ISO 527       |
| Yield stress                            | 42    | MPa               | ISO 527       |
| Yield strain                            | 4     | %                 | ISO 527       |
| Nominal strain at break                 | 20    | %                 | ISO 527       |
| Impact Strength (Charpy), +23°C         | 110   | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 70    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 5     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 2     | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal Properties                        | Value | Unit  | Test Standard |
|-------------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                           |       |       |               |
| Temp. of deflection under load (1.80 MPa) | 87    | °C    | ISO 75-1/-2   |
| Temp. of deflection under load (0.45 MPa) | 93    | °C    | ISO 75-1/-2   |
| Vicat softening temperature, 50°C/h 50N   | 87    | °C    | ISO 306       |
| Burning Behav. at 1.5 mm Nom. Thickn.     | HB    | class | UL 94         |
| Thickness tested                          | 1.5   | mm    | -             |
| UL recognition                            | yes   | -     | -             |
| Burning Behav. at thickness h             | HB    | class | UL 94         |
| Thickness tested                          | 3.0   | mm    | -             |
| UL recognition                            | yes   | -     | -             |

| Other Properties    | Value | Unit              | Test Standard  |
|---------------------|-------|-------------------|----------------|
| <b>ISO Data</b>     |       |                   |                |
| Water Absorption    | 0.7   | %                 | Sim. to ISO 62 |
| Humidity absorption | 0.35  | %                 | Sim. to ISO 62 |
| Density             | 1080  | kg/m <sup>3</sup> | ISO 1183       |

| Rheological calculation properties | Value | Unit     | Test Standard |
|------------------------------------|-------|----------|---------------|
| <b>ISO Data</b>                    |       |          |               |
| Thermal Conductivity of Melt       | 0.155 | W/(m K)  | -             |
| Spec. heat capacity of melt        | 2340  | J/(kg K) | -             |
| Ejection temperature               | 90    | °C       | -             |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 70        | °C   | -             |
| Pre-drying - Time                           | 2         | h    | -             |
| Melt temperature                            | 230 - 260 | °C   | -             |
| Mold temperature                            | 50 - 80   | °C   | -             |

**Characteristics****Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Blow Molding, Thermoforming

**Delivery form**

Pellets

**Chemical Resistance**

Radiation Resistance

**Certifications**

Medical, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, Drug Master File, Long term supply assurance, Food approval, Food approval 10/2011, Food Contact (FDA)

**Special Characteristics**

Transparent, Sterilizable, Ethylene Oxide (EtO) Sterilization,  
Gamma irradiation sterilization

**Applications**

Medical

**Injection Molding**

**PREPROCESSING**

Pre-drying, Temperature: 70 °C

Pre-drying, Time: 2h

**PROCESSING**

Melt temperature, range: 230 - 260 °C

Mold temperature, range: 50 - 75 °C

**Disclaimer**

**Liability Exclusion**

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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