

DuraSense® Plus S40 Hi GD

Code: CD1000

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Description DuraSense® consists of a wood-fiber reinforced polymer matrix. It contains a high amount of renewable fibrous material, giving it several notable advantages, such as:

- Reduced carbon emissions compared to conventional polymers
- Excellent tensile- and flexural properties
- Frequently reduced cycle time in injection moulding applications
- Unique tactile feeling and natural appearance. The material can also be colored

Applications This grade is designed for injection moulding. It's a well rounded general purpose grade with a good strength and stiffness balance.

- Consumer goods
- Boxes
- Housings
- Components & handles
- Furniture
- Logistic components

Certifications & compliance Stora Enso's Biocomposite unit is fully certified in accordance with ISO 9001, OHSAS 18001, ISO 14001, ISO 50001, Chain of Custody, FSC and PEFC. Furthermore, this grade is compliant with below regulation(s) as amended. Please note that restrictions may apply, contact your sales representative for more information.

- EN 71-3, Safety for Toys

Environment The product contains a high amount of wood, a renewable resource. The material is recyclable and can also be used for energy recovery by incineration.

| Typical properties | Standard | Plus S40 | |
|------------------------------|--------------|----------|-------------------|
| | | Hi GD | Unit |
| Wood content (weight) | - | 5 | % |
| Density | ISO 1183 | 1,06 | g/cm ³ |
| Tensile strength | ISO 527-2/50 | 42 | MPa |
| Tensile modulus | ISO 527-2/2 | 4100 | MPa |
| Flexural modulus | ISO 178 | 3800 | MPa |
| Strain at break | ISO 527-2/50 | 6,0 | % |
| Charpy Impact strength, 23°C | ISO 179/1eU | 27 | kJ/m ² |

Storage The product should be stored dry, in sealed containers, and be protected from direct sunlight. Moisture in contact with the material may lead to an inferior end product and impaired processability.

Disclaimer All information is based on Stora Enso's testing and experience and is accurate to the best of our knowledge at the date of publication. This document is designed to act as a help for safe and efficient processing of the material. Depending on use the properties achieved may differ from those stated and the information provided in this document does not serve as a guarantee or identification of quality.