

Technical datasheet for: epsotech PP TS2 AS

Overview and Structure

epsotech PP TS2 AS is a multi-layer block copolymer Polypropylene, supplied in sheet format, with an elastomer top layer. The base layer is filled to 20% high quality talc for improved stiffness and processing during vacuum forming.

Typical Physical Properties

| Property | Value | Unit | Standard | Test Method |
|-------------------------------|------------|-------------------|-----------|-----------------------------------|
| GENERAL PROPERTIES: | | | | |
| Density* | 1.05 | g/cm ³ | ISO 1183 | - |
| Harness (TPE layer) | 68 | Shore | | A |
| MECHANICAL PROPERTIES: | | | | |
| Flexural Modulus | 2050 | MPa | ISO 178 | 23°C 2mm/min |
| Yield stress | 20 | MPa | ISO 527 | 23°C 50mm/min |
| Elongation at Yield | - | % | ISO 527 | 23°C 50mm/min |
| Elongation at Break | 90 | % | ISO 527 | 23°C 50mm/min |
| Charpy (notched) | - | KJ/m ² | ISO 179 | 23°C, 1eA |
| Charpy (notched) | - | KJ/m ² | ISO 179 | -30°C, 1eA |
| Charpy (un-notched) | - | - | - | - |
| Charpy (un-notched) | - | - | - | - |
| THERMAL PROPERTIES: | | | | |
| VICAT softening Point | 99 | °C | ISO 306 | B/50 |
| HDT-A | 79 | °C | ISO 075 | HDT/A 1.8 MPa |
| UV STABILISATION: | | | | |
| UV Stabilisation | Optional | - | - | According to customer requirement |
| BURNING BEHAVIOUR: | | | | |
| Burning Rate | <100mm/min | - | - | |
| Flammability Rating | - | - | - | |
| Flammability Rating UL** | - | - | - | |
| SURFACE/VOLUME: | | | | |
| Gloss Level | 1.0 | | DIN 67530 | 60° |
| MISCELLANEOUS: | | | | |
| Mould Shrinkage | - | % | - | - |
| Thermoforming Temperature | - | °C | - | - |

Unless otherwise stated, products are tested at a typical thickness of 4mm

* The density quoted should only be used as a guide. This value can change depending upon the type and quantity of pigments or additives used.

** Fire behaviour values given by raw material supplier or by indicative test on raw material. Not intended as a specification

Supplemental Information

Chemical Contact and cleaning

Contact technical support for information

Chemical resistance is influenced by many factors, including concentration, temperature, exposure time and material stress. Therefore the data should only be used as a guide.

Most common mild soaps or detergents dissolved in warm water can be used to effectively clean general dirt and surface contaminants, but in all cases should be objectively tested. Abrasive products will damage the surface.

Storage and Drying

PP has a very low moisture absorption, therefore pre-drying is not normally required

Dimensional Tolerances

Standard tolerances are subject to the local standard tolerance set. Extra tolerance requirements may be possible on request and by special agreement

Product Modification

Product code nomenclature takes in to account selected primary features of a product. The suffix may indicate a primary additional functionality, however, further multiple modifications are almost always possible and may be agreed upon and specified prior to our technical and commercial offer. Such enhancements are a normal part of our service capability and they do not affect the general characteristics listed in technical datasheets.

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Edition 1, September 2019

Published by epsotech Holding GmbH, Im Reinfeld 2, Jülich Kirchberg, 52428 Germany