

Product datasheet IMPRELON® S+ pd

1 Description of the product / intended use / company

Trade name:	IMPRELON® S+ pd
Intended use:	Thermoplastic foils for the manufacture of appliances and splints for dental and orthodontic treatments.
Manufacturer / Supplier:	Scheu Dental GmbH Am Burgberg 20 58642 Iserlohn Germany Tel. 0049 2374 9288-0

2 Composition / information on ingredients

Chemical characterization

CAS-Number:	-
Designation:	Copolyester/ Polyethylene (PE) With a removable protective film!

3 Handling and storage

Handling

Information for safe handling:	When using do not eat, drink or smoke. Provide suction extractors if dust is formed.
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Storage

Storage conditions:	Store dry and dark at 5 - 35 °C
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4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value
Form	-	Solid
Colour	-	Transparent
Odour	-	Odourless
Density	ASTM D792	1,18
Water absorption after 24 h at 23°C	-	-

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4.2 Mechanical properties

Properties	Guideline	Value
Tensile Strength	ISO 527	43 MPa
Tensile Modulus	ISO 527	1548 MPa
Elongation at yield	ISO 527	7 %
Elongation at break	ISO 527	185 %
Rockwell Hardness	ASTM D785	112

4.3 Thermal properties

Properties	Guideline	Value
Deflection Temperature @ 0,455 MPa	ASTM D648	99 °C
@ 1,82 MPa		85 °C

4.4 Biological properties / Biocompatibility

A biological evaluation was carried out for the material in accordance with DIN EN ISO 10993-1. It meets the requirements regarding biocompatibility for medical devices.

5 Stability and reactivity

Thermal decomposition / Conditions to avoid:

No decomposition by intended use.

6 Disposal

The material can be recycled after separation or deposited of like commercial or household waste.

The aforementioned data are given most conscientiously but without any obligation. Any processing details are provided merely for guidance: it is the user's responsibility to check the suitability of the product for the intended application.