



## Technical data sheet

### ISOFORM PE80

Extruded sheet made of raw material which is classified as PE80 material.

#### Key benefits

Tough at lower temperature  
Thermoformable and weldable  
Moisture and chemical resistant

#### General application

Processing equipment  
Chemical engineering

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN 53479	g/cm <sup>3</sup>	0,96
Carbon black content	ISO 6469	%	2,4
<b>Mechanical Properties</b>			
Tensile modulus	ISO 527	MPa	
Tensile strength	ISO 527	MPa	>20
Elongation at break	ISO 527	%	>200
Flexural modulus	ISO 178	MPa	800
Charpy notched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	13
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	N.B.
Hardness	ISO 868	Shore D	57
<b>Thermal properties</b>			
Melting temperature	ISO 3146	°C	135
Vicat softening temperature - A50	ISO 306/A50	°C	118
Vicat softening temperature - B50	ISO 306/B50	°C	
Heat deflection temperature B (0.45 MPa)	ISO 75B	°C	
Heat deflection temperature A (1.80 MPa)	ISO 75A	°C	
Service temperature (intermittent)		°C	90
Service temperature (long term)		°C	- 40 ... 80
<b>Other properties</b>			
OIT (200 °C)	EN 728	min	>20
Water absorption	24h/RT	%	<0,01
Flammability (thickness 3 mm)	UL94		HB
Mould shrinkage	Compared to a reference form	%	Longitudinal: / Transverse: /

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