

## Technical Data Sheet

# Polystone<sup>®</sup> P Ortho HI brown

### Typical characteristics

- High Elasticity
- High Stability / Strength
- Very good surface quality

### Typical industries

- Healthcare

	Test method	Unit	Guideline value
<b>General properties</b>			
Densité	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,91
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>23
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1100
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>40
Shore hardness	DIN EN ISO 868	scale D	>65
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	162 ... 167
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	120 ... 190
Service temperature, long term	Average	°C	-30 ... 100
Service temperature, short term (max.)	Average	°C	150
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	85
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,00019
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2		>10 <sup>14</sup>

### Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0  
[info@roechling-plastics.com](mailto:info@roechling-plastics.com) • [www.roechling.com/industrial/haren](http://www.roechling.com/industrial/haren)

Print: 27/07/2024 • Draft: 27/07/2024

PIM-Version: 475 • PIM-ID: 718544 • PIM-Code: 475-6-10.11.13-9-5



	Test method	Unit	Guideline value
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	>40

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



#### Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0  
info@roechling-plastics.com • www.roechling.com/industrial/haren

Print: 27/07/2024 • Draft: 27/07/2024

PIM-Version: 475 • PIM-ID: 718544 • PIM-Code: 475-6-10.11.13-9-5

Page 2 / 2 (Dates in DD/MM/YYYY)

