

## Technical Data Sheet

# Polystone<sup>®</sup> D nuclear red

### Typical characteristics

- Shielding against neutron radiation
- Good mechanical properties

### Typical industries

- Industrie nucléaire

	Test method	Unit	Guideline value
<b>General properties</b>			
Hydrogen content	Elemental analysis	% by weight	14,2
Specific Gravity	DIN EN ISO 1183-1	g / cm <sup>3</sup>	0,96
<b>Mechanical properties</b>			
Elongation at yield stress	DIN EN ISO 527	%	8
Elongation at break	DIN EN ISO 527	%	60
Shore hardness	DIN EN ISO 868	scale D	66
<b>Thermal properties</b>			
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	1 ... 1,5
Service temperature, short term (max.)	Average	°C	-100 ... 100
Crystalline grain melting range	DSC	°C	135
Service Temperature		°C	-100 ... 80
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>12</sup>
Surface resistivity	DIN EN 62631-3-2		>10 <sup>11</sup>
Comparative tracking index	IEC 60112	CTI	600

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: 466 • PIM-ID: 718610 • PIM-Code: 466-18-10.16-6-5

