

Technical Data Sheet

Polystone® D red

Typical characteristics

- Good mechanical properties
- Physiologically safe
- Very wear, cutting and scratch resistant
- Good sliding properties

Typical industries

- Stavební průmysl
- Stavba strojů a zařízení
- Potravinářský průmysl
- Zpracování masa, ryb a drůbeže
- Pečivo a sladkosti

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,95
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>27
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1200
Shore hardness	DIN EN ISO 868	scale D	65
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	150 ... 230
Service temperature, long term	Average	°C	-100 ... 80
Service temperature, short term (max.)	Average	°C	80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0002
Volume resistivity	DIN EN 62631-3-1	Ohm * cm	>10 ¹⁴

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: 29/04/2024 • Draft: 29/04/2024

PIM-Version: 429 • PIM-ID: 591140 • PIM-Code: 429-15-16.10.40.222-8.5.5.4.4-5

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Surface resistivity	DIN EN 62631-3-2	Ohm	$>10^{14}$
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: 29/04/2024 • Draft: 29/04/2024

PIM-Version: 429 • PIM-ID: 591140 • PIM-Code: 429-15-16.10.40.222-8.5.5.4.4-5

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

