

### Technical Data Sheet

## Polystone<sup>®</sup> MPG blue extruded

#### Typical characteristics

- Long lifetime
- Good sliding properties with soft sliding partners
- Low moisture absorption
- Good wear resistance

#### Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,96
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 <sup>6</sup> g/mol	~ 9
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>20
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>700
Notched impact strength	DIN EN ISO 11542-2	kJ / m <sup>2</sup>	>100
Shore hardness	DIN EN ISO 868	scale D	>65
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	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 <sup>-6</sup> / K	150 ... 230
Service temperature, long term	Average	°C	-250 ... 80
Service temperature, short term (max.)	Average	°C	130 ... 135
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>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 • www.roechling.com/industrial/haren

Print: 27/07/2024 • Release: 20/09/2023 • Version: 3.0  
 PIM-Version: 470 • PIM-ID: 718546 • PIM-Code: 470-29-13.10.11.142-5.11-5



	Test method	Unit	Guideline value
Surface resistivity	DIN EN 62631-3-2		$>10^{14}$
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 • Release: 20/09/2023 • Version: 3.0

PIM-Version: 470 • PIM-ID: 718546 • PIM-Code: 470-29-13.10.11.142-5.11-5

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

