

Technical Data Sheet

Durostone[®] UPGM -LP

Typical characteristics

- Polyester (UP) resin matrix
- reinforced with glassfiber mats
- for high strength in crosswise direction

Typical industries

- Electrical Industry

	Test method	Unit	Guideline value
Mechanical properties			
Flexural strength, lengthwise	ISO 178	MPa	250 - 350
Flexural modulus, lengthwise	ISO 178	MPa	10000 - 18000
Flexural strength, crosswise	ISO 178	MPa	150 - 300
Flexural modulus, crosswise	ISO 178	MPa	8000 - 14000
Compressive strength, perpendicular	ISO 604	MPa	250 - 300
Tensile strength, lengthwise	ISO 527	MPa	250 - 350
Tensile strength, crosswise	ISO 527	MPa	150 - 250
Thermal properties			
Flammability	UL 94	/	HB
Temperature index	IEC 60216	T.I.	155
Max. continuous operating temperature		°C	130
Physical properties			
Density	ISO 1183	g / cm ³	1,7 - 1,85
Glass content	ISO 1172	%	40 - 70
Water absorption	ISO 62	%	< 5
Dielectrical properties			
Specific surface resistance	IEC 60093		10 ¹¹ - 10 ¹⁴
Specific volume resistance	IEC 60093	Ω x cm	10 ¹⁰ - 10 ¹³
Electrical strength, perpendicular, 90 °C	IEC 60243	kV / mm	4 - 10
Comparative tracking index	EN 60112	CTI	600

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own

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: 2.0
 PIM-Version: 495 • PIM-ID: 710071 • PIM-Code: 495-106-7.7.8-11-20



tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: www.roechling.com/gtc



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: 2.0
PIM-Version: 495 • PIM-ID: 710071 • PIM-Code: 495-106-7.7.8-11-20

