

## GUR<sup>®</sup> 2126-2

## GUR®

UHMW-PE powder grade: very small hydrophilic particle, special particle morphology

## Product information

Resin Identification Part Marking Code Average molecular weight Average particle size, d50		) δ g/mol ) μm	ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties			
Viscosity number Intrinsic viscosity	2100 1900	) cm³/g )	ISO 307, 1628 ISO 307, 1628
Typical mechanical properties			
Tensile modulus	770	) MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	2	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min		3 %	ISO 527-1/-2
Tensile stress at 50% strain		) MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min		) MPa	ISO 527-1/-2
Nominal strain at break		) %	ISO 527-1/-2
Elongational stress F, 150/10 Charpy double notched impact streng Poisson's ratio [C]: Calculated		MPa ) kJ/m² ]	ISO 21304-2 ISO 21304-2
Tribological properties			
0 1 1			
Wear by sandslurry method (based on GUR 4120=100)	100	)	
Physical/Other properties			
Density	930	) kg/m <sup>3</sup>	ISO 1183
Bulk density		) kg/m <sup>3</sup>	ISO 60
Characteristics			
Delivery form	Micropowder		
Special characteristics	High impact or impact modified, Hydrolysis resistant, Low wear / Low friction, Chemical resistant, Hydrophilic		

Printed: 2025-05-30

Page: 1 of 1

## Revised: 2024-08-16 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those product expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.