

KEPITAL® NX-20

A special polymer modified wear-resistance grade for general injection molding

A special polymer modified wear-resistance grade for general injection molding. A complex wear-resistance grade, designed for applications requiring reduced wear, low friction and low noise.

Rheological properties

Theological properties			
Moulding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Typical mechanical properties			
Yield stress, 50mm/min	55	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	20	%	ISO 527-1/-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Strength	75	MPa	ISO 178
Charpy notched impact strength, 23°C	3.5	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10 °C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	90	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	130	E-6/K	ISO 11359-1/-2
Electrical properties			
Volume resistivity	>1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	>1E16	-	IEC 62631-3-2
Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density		kg/m³	ISO 1183

Printed: 2023-08-07 Page: 1 of 1

Revised: 2023-05-21 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 conditions and environmental exposure. Other than those products 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 information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials 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 mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufac

© 2023 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. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.