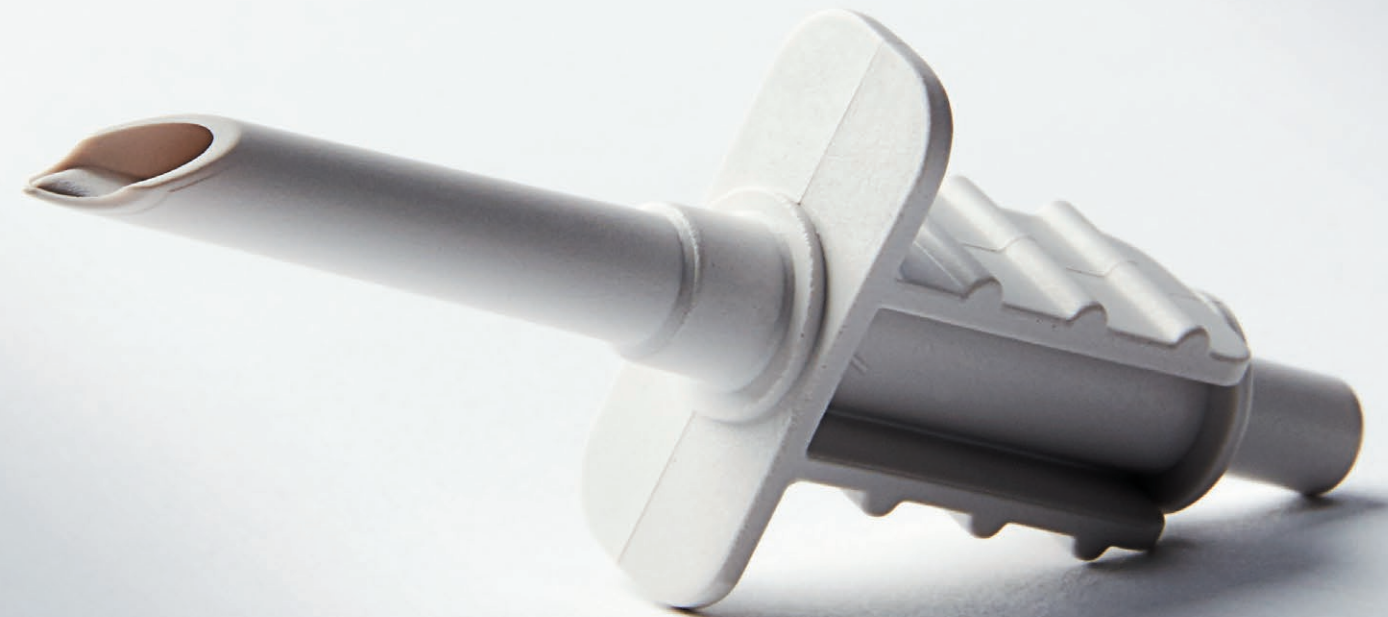


NOVODUR® HD M203FC G3

Regulatory compliant IV spike material with glass fiber



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PLEASE NOTE

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (April 2016)

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STYRENIC SOLUTIONS FOR THE HEALTHCARE INDUSTRY

As the global leader in styrenics, INEOS Styrolution supports stakeholders in the healthcare sector. Based on a deep understanding of the medical industry, its applications, value chains and regulatory requirements, INEOS Styrolution's portfolio and services are continuously improved to generate further value for its customers.

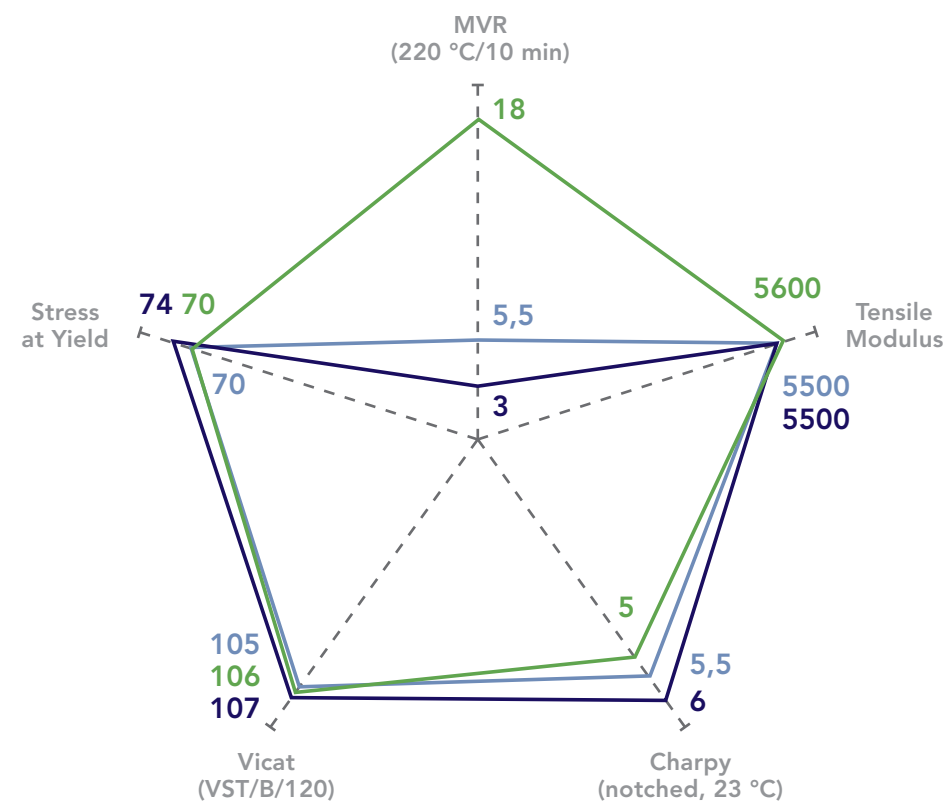
COMBINING FLOW AND STIFFNESS IN A UNIQUE WAY

Novodur HD M203FC G3 is a glass fiber filled medical ABS polymer grade which is certified against the relevant parts of the biocompatibility standard ISO 10993. The new grade delivers a significantly increased melt flow rate compared to commonly used materials combined with the required stiffness.

Together with Fleima-Plastic, a brand of the Masterflex Group, INEOS Styrolution developed an IV transfer spike made of Novodur HD M203FC G3. It is offered with INEOS Styrolution's Full Service HD package which comes with a notification of change commitment of up to 36 months with a signed long-term supply contract.

VALUE PROPOSITION

- Flowability
- High stiffness
- Dimensional stability
- Easy processing
- Compliant with ISO 10993, USP Class VI, FDA, and EU food contact regulations

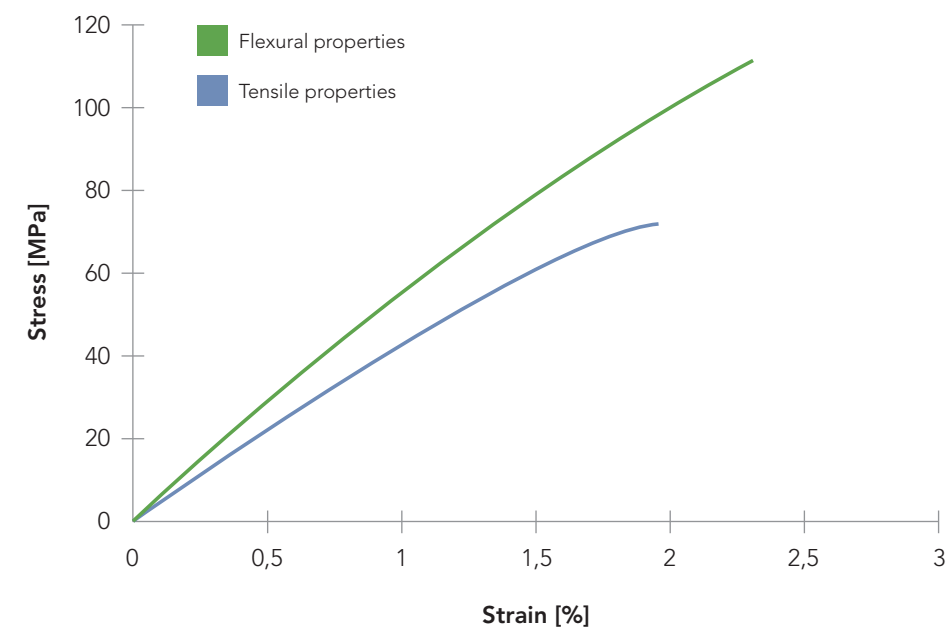


- Novodur HD M203FC G3
- Reference 1
- Reference 2

			HD M203FC G3	Reference 1	Reference 2
PROPERTY	Norm	Unit			
MVR (220 °C/10 min)	ISO 1133	cm ³ /10 min	18	3	5
Charpy (notched, 23 °C)	ISO 179	kJ/m ²	5	6	6
Hardness	ISO 2039-1	MPa	145	135	125
Vicat (VST/B/120)	ISO 306	°C	106	107	105
HDT A	ISO 75	°C	104	102	102
Tensile Modulus	ISO 527	MPa	5600	5500	5800
Stress at Yield	ISO 527	MPa	70	74	70
Strain at Yield	ISO 527	%	1,7	2	1,7
Flexural Modulus	ISO 178	MPa	5100	5400	5800
Flexural Strength	ISO 178	MPa	100	101	105
Density	ISO 1183	kg/cm ³	1190	1160	1180

Typical values for uncolored products.

FLEXURAL AND TENSILE PROPERTIES OF NOVODUR HD M203FC G3



Reference 1



HD M203FC G3
30% increased
flow length

