

# Novodur® HD M203FC

Acrylonitrile Butadiene Styrene  
Styrolution

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Novodur HD M203FC is an injection molding grade especially suitable for medical applications providing high flowability.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E256400-545821</a> • <a href="#">E326278-100205066</a>
Search for UL Yellow Card	• <a href="#">Styrolution</a> • <a href="#">Novodur®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Sterilizability • High Flow
Uses	• Housings • Medical Devices • Medical/Healthcare Applications
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.05 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	31.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2400 MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	46.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield, 23°C	2.6 %	
Break, 23°C	> 15 %	
Flexural Modulus	2400 MPa	ISO 178
Flexural Stress	70.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C	7.0 kJ/m <sup>2</sup>	
23°C	15 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179
-30°C	90 kJ/m <sup>2</sup>	
23°C	110 kJ/m <sup>2</sup>	
Notched Izod Impact Strength		ISO 180/A
-30°C	7.0 kJ/m <sup>2</sup>	
23°C	15 kJ/m <sup>2</sup>	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness	105 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Annealed	98.0 °C	ISO 75-2/B
1.8 MPa, Annealed	94.0 °C	ISO 75-2/A
Vicat Softening Temperature	99.0 °C	ISO 306/B50
CLTE - Flow	9.0E-5 cm/cm/°C	ISO 11359-2



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Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093
Electric Strength <sup>4</sup> (1.50 mm)	35 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
100 Hz	3.00	
1 MHz	2.90	
Dissipation Factor		IEC 60250
100 Hz	5.0E-3	
1 MHz	9.0E-3	
Comparative Tracking Index	600 V	IEC 60112

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	220 to 260 °C
Mold Temperature	70.0 °C
Injection Velocity	240 mm/sec

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> Short Time



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## Where to Buy

### Supplier

#### Styrolution

Wyandotte, MI USA

Telephone: 734-324-6100

Web: <http://www.styrolution.com/>

### Distributor

#### Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

#### Telko Oy

*Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.*

Telephone: +358-9-5211

Web: <http://www.telko.com/>

Availability: Belarus, Estonia, Latvia, Lithuania, Russian Federation, Ukraine

#### Ultrapolymers

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Ireland, Italy, Macedonia, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Turkey, United Kingdom

