

Novamid® 1010C2

Polyamide 6

DSM Engineering Plastics

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Easy Molding Grade

General

Material Status	• Commercial: Active
Literature ¹	• Processing (English) • Technical Datasheet (English)
UL Yellow Card ²	• E47960-100738712 • E172082-100744565
Search for UL Yellow Card	• DSM Engineering Plastics • Novamid®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Moldability
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.8	--	%	ISO 62
Viscosity Number	118	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3400	1700	MPa	ISO 527-2
Tensile Stress (Yield)	87.0	54.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.2	21	%	ISO 527-2
Nominal Tensile Strain at Break	18	> 50	%	ISO 527-2
Flexural Modulus	2800	1000	MPa	ISO 178
Flexural Stress	102	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.2	26	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	59.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	2.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	--	ohms-cm	IEC 60093
Electric Strength	27	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.00	--		
1 MHz	4.00	--		
Dissipation Factor				IEC 60250
100 Hz	0.011	--		
1 MHz	0.023	--		
Comparative Tracking Index	600	--	V	IEC 60112



Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 mm)	V-2	--		IEC 60695-11-10, -20

Notes

¹ 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.

² 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.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min



Where to Buy

Supplier

DSM Engineering Plastics
Evansville, IN USA
Telephone: 800-333-4237
Web: <http://www.dsmep.com/>

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.
Telephone: +86-20-3466-7988
Web: <http://3polymer.com>
Availability: China

