

Celanyl® A3 HH GF50 BK 9005/AG

Polyamide 66

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polyamide 66 compound, 50% glass fibre reinforced, heat stabilized.
Grade for technical uses, designed for Automotive parts under the hood. High stiffness and long term heat ageing resistance.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• Celanese Corporation • Celanyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Features	• Good Heat Resistance
Forms	• Granules
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	15	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	13000	MPa	ISO 527-1
Tensile Stress (Break)	230	170	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	2.8	%	ISO 527-2/5
Flexural Modulus (23°C)	15000	--	MPa	ISO 178
Flexural Stress (23°C)	310	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	13	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	257	--	°C	ISO 75-2/A
Melting Temperature ³	265	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength ⁴ (23°C)	22	--	kV/mm	IEC 60243-1
Comparative Tracking Index ⁵	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.8 mm	650	--	°C	
3.2 mm	650	--	°C	



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

³ 20°C/min

⁴ AC

⁵ 50 drops



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Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

Web: <https://www.celanese.com/>

Distributor

Amco Polymers

Telephone: 800-262-6685

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

Availability: North America

RESINEX Group

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

Telephone: +32-14-672511

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

Availability: Europe

SNETOR

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

Telephone: +33-1-4904-8888

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

Availability: Bulgaria, Croatia, Czech Republic, France, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia

