

## Technical Data

### Product Description

Polyamide 66 compound, 30% glass fiber reinforced, heat stabilized. Based on recycled polymers. General purpose grade, suitable for many technical applications. Medium term heat ageing resistant.

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>		
Search for UL Yellow Card	• <a href="#">Celanese Corporation</a>		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Recycled Content	• Yes		
Features	• Good Heat Resistance		
Forms	• Granules		
Processing Method	• Injection Molding		
Multi-Point Data	• Specific Volume vs Temperature (ISO 11403-2)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70 to 1.1	--	%	
Flow	0.30 to 0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.4	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	--	cm <sup>3</sup> /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	6300	MPa	ISO 527-1
Tensile Stress (Break)	130	88.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.6	4.0	%	ISO 527-2/5
Flexural Modulus				ISO 178
-40°C	8250	--	MPa	
23°C	7950	--	MPa	
80°C	3730	--	MPa	
Flexural Stress				ISO 178
23°C	199	--	MPa	
80°C	89.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.5	--	kJ/m <sup>2</sup>	
23°C	6.5	9.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m <sup>2</sup>	
23°C	45	60	kJ/m <sup>2</sup>	
Notched Izod Impact Strength				ISO 180/1A
-30°C	5.4	--	kJ/m <sup>2</sup>	
23°C	6.6	--	kJ/m <sup>2</sup>	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness <sup>3</sup>	185	--	MPa	ISO 2039-1



# Ecomid® ARX H GF30 BK 9005/H

Polyamide 66

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	229	--	°C	ISO 75-2/A
Continuous Use Temperature	125	--	°C	DIN/IEC 60216-1
Vicat Softening Temperature	238	--	°C	ISO 306/B50
Melting Temperature <sup>4</sup>	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.3E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
FMVSS Flammability <sup>5</sup>	B	--		FMVSS 302
Injection		Dry Unit		
Processing (Melt) Temp		< 290 °C		

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

<sup>3</sup> 30s

<sup>4</sup> 20°C/min

<sup>5</sup> ISO 3795



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[www.ulprospector.com](http://www.ulprospector.com)

### Where to Buy

#### Supplier

##### Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

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

#### Distributor

##### 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

