



### ECOMID® ARX H GF35 BK 9005/V

**ECOMID®** 

Designed for Automotive industry, suitable for other technical applications that require mechanical performance and long term heat ageing resistance.

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Resin Identification Part Marking Code Continuous Service Temperature		(PA66+PA6)-GF35 >(PA66+PA6)-GF35< 125 °C		ISO 1043 ISO 11469 IEC 60216-1
	Continuous Gervice Temperature	123	O	120 00210-1
	Rheological properties	dry/cond.		
	Viscosity number	145/*	cm <sup>3</sup> /g	ISO 307, 1628
	Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
	Moulding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577
	Typical mechanical properties	dry/cond.		
	Tensile modulus	10000/6500	MPa	ISO 527-1/-2
	Tensile stress at break, 5mm/min	145/85	MPa	ISO 527-1/-2
	Tensile strain at break, 5mm/min	2.5/4.8	%	ISO 527-1/-2
	Charpy impact strength, 23°C	46/56	kJ/m²	ISO 179/1eU
	Charpy impact strength, -30°C	40/39	kJ/m²	ISO 179/1eU
	Charpy notched impact strength, 23°C	7.5/10 <sup>[C]</sup>	kJ/m²	ISO 179/1eA
	Charpy notched impact strength, -30 °C	6/-	kJ/m²	ISO 179/1eA
	Ball indentation hardness, H 961/30	195/-	MPa	ISO 2039-1
	Poisson's ratio	0.34/0.35 <sup>[C]</sup>		
	[C]: Calculated			
	Thermal properties	dry/cond.		
	Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
	Temperature of deflection under load, 0.45 MPa	245/*	°C	ISO 75-1/-2
	Flammability	dry/cond.		
	Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
	FMVSS Class	В		ISO 3795 (FMVSS 302)
	Burning rate, Thickness 1 mm	38.9	mm/min	ISO 3795 (FMVSS 302)
	Physical/Other properties	dry/cond.		
	Humidity absorption, 2mm	1.5/*	%	Sim. to ISO 62
	Water absorption, 2mm	5.5/*	%	Sim. to ISO 62
	Density	1390/-	kg/m³	ISO 1183
	Injection			
	Drying Recommended	yes		
Drying Temperature			°C	
Drying Time, Dehumidified Dryer		2 - 4	h	
	Processing Moisture Content	≤0.15	%	

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285 °C 275 °C

Revised: 2025-04-18 Source: Celanese Materials Database

Melt Temperature Optimum

Min. melt temperature





### ECOMID® ARX H GF35 BK 9005/V

### **ECOMID®**

#### Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat

#### **Automotive**

OEM STANDARD ADDITIONAL INFORMATION

Ford WRS-M4D673-B2

VW Group VW 50127 \*Best Fitting Grade To PA66-7-A, Not Officially

Approved

VW Group VW 50133 \*Best Fitting Grade To PA66-7-A, Not Officially

Approved

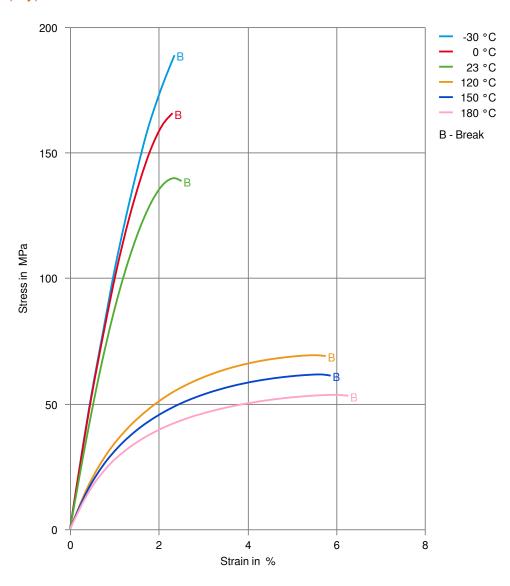
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### Stress-strain (dry)

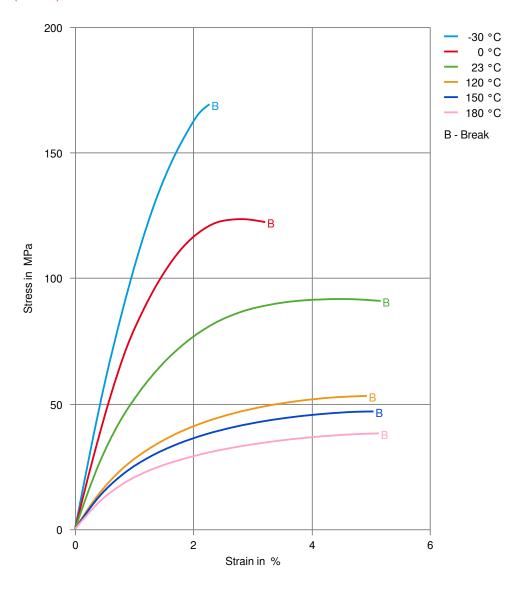


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### Stress-strain (cond.)

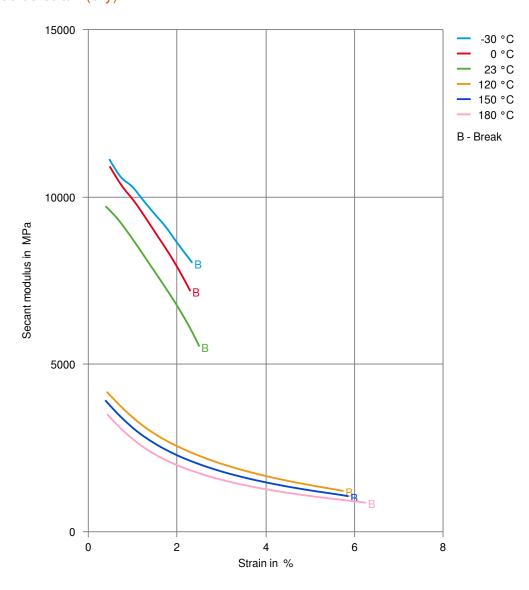


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### Secant modulus-strain (dry)

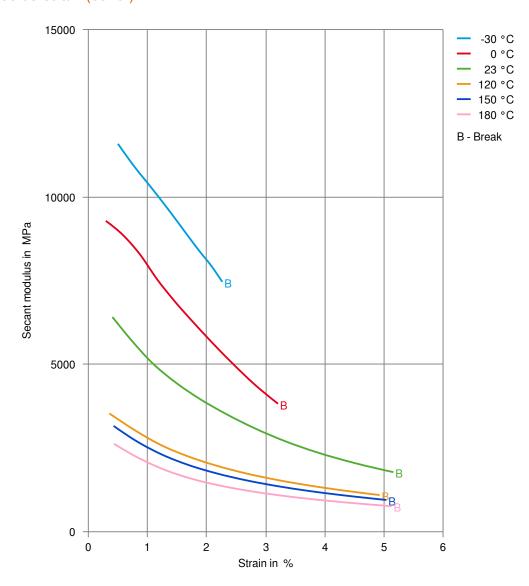


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### Secant modulus-strain (cond.)



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NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users

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