

## ECOMID<sup>®</sup> ARX H GF30 BK 9005/L

Car industry, Household appliances, Electrical devices.

## Product information

Resin Identification Part Marking Code Continuous Service Temperature	PA66-GF30 >PA66-GF30< 125	°C	ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage range, parallel Moulding shrinkage range, normal	135/* 0.3 - 0.7 0.9 - 1.3	cm³/g % %	ISO 307, 1628 ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Charpy impact strength, 23 °C Charpy impact strength, -30 °C Charpy notched impact strength, -30 °C Ball indentation hardness, H 961/30 Poisson's ratio [C]: Calculated	9200/- 140/- 2.2/- 40/- 35/- 6/- 4/- 190/- 0.34/- <sup>[C]</sup>	MPa MPa % kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup> MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 2039-1
Thermal properties	dry/cond.		
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa	260/* 235/* 245/*	°C °C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at thickness h Thickness tested	HB/* 3.2/*	class mm	IEC 60695-11-10 IEC 60695-11-10
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm Water absorption, 2mm Density	1.5/* 5.2/* 1360/-	% % kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature	yes 80 2 - 4 ≤0.15 285 275 295	% °C °C	

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Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

## **Characteristics**

Processing	Injection Moulding
Special characteristics	Heat stabilised or stable to heat

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