

# ECOMID<sup>®</sup> A H J10 BK 9017/A

## ECOMID®

General purpose grade, designed for Automotive industry, medium tougheness. Typically used for fitting elements.

Product information Resin Identification	PA66-I		ISO 1043
Part Marking Code Continuous Service Temperature	>PA66-I< 120	°C	ISO 11469 IEC 60216-1
Commode Service remperature	120	0	
Rheological properties			
Moulding shrinkage range, parallel	1.5 - 2.2		ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 2.2	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	2300/1100 <sup>[C]</sup>	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	55/35 <sup>[C]</sup> 30/- <sup>[C]</sup>	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min Flexural modulus	2200/-	% MPa	ISO 527-1/-2 ISO 178
Flexural strength	85/-	MPa	ISO 178
Charpy impact strength, 23°C	>100/N <sup>[C]</sup>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	30/>50 <sup>[C]</sup>	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	35/-	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30 °C Poisson's ratio	11.0/- 0.39/0.45 <sup>[C]</sup>	kJ/m²	ISO 180/1A
	0.39/0.45		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	70/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	190/* 206/*	°C °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N Coefficient of linear thermal expansion	2007 129 <sup>[1]</sup> /*	E-6/K	ISO 306 ISO 11359-1/-2
(CLTE), parallel	120 /		
Coefficient of linear thermal expansion (CLTE),	130 <sup>[1]</sup> /*	E-6/K	ISO 11359-1/-2
normal			
[1]: Temperature range: -30 °C to 150 °C			
Flammability	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
FMVSS Class	В		ISO 3795 (FMVSS 302)
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.9/*	%	Sim. to ISO 62
Water absorption, 2mm	6.9/*	%	Sim. to ISO 62
Density	1090/-	kg/m³	ISO 1183



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### Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2-4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	290 °C
Min. melt temperature	280 °C
Max. melt temperature	300 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C

#### **Characteristics**

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat

#### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50127	*Best Fitting Grade To PA66-2, Not Officially Approved
VW Group	VW 50133	*Best Fitting Grade To PA66-2-A, Not Officially Approved

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