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### ECONAMID® FL 6G35H1

(ECONAMID 6G35FLH)

Polyamide 6, 35% glass fiber reinforced, heat stabilized, for injection moulding.

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PRODUCT IDENTIFICATION</b>				
ISO 1043 abbreviation		ISO 1043		PA6-GF35
ISO 1874-1 designation		ISO 1874-1		PA6,M,14-100,GF35
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,41
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,2 ÷ 0,4
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,7 ÷ 0,9
<b>RHEOLOGICAL</b>				
Viscosity number	96% H2SO4	ISO 307	[ml/g]	135
<b>MECHANICAL</b>				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	10000 / 6900
Tensile stress at break	5 mm/min	ISO 527	[MPa]	145 / 95
Tensile strain at break	5 mm/min	ISO 527	[%]	2,5 / 5,5
Flexural modulus	2 mm/min	ISO 178	[MPa]	8500 / 5500
Flexural strength	2 mm/min	ISO 178	[MPa]	210 / 135
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	45 / 60
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	6,5 / 11
Izod impact unnotched	+23 °C	ISO 180/1U	[kJ/m <sup>2</sup> ]	40 / 55
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m <sup>2</sup> ]	6,5 / 10,5
Hardness Rockwell		ISO 2039/2	[ScaleR]	122 / -
<b>THERMAL</b>				
Melting point	DSC	ISO 11357-1	[°C]	221
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	215
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	205
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	210
<b>ELECTRICAL</b>				
Volume resistivity		IEC 60093	[Ω·cm]	10 <sup>15</sup>
Surface resistivity		IEC 60093	[Ω]	10 <sup>13</sup>
<b>BURNING BEHAVIOUR</b>				
Flammability	0,8 mm	UL 94	[Class]	HB
Burning rate (FMVSS)		FMVSS 302	[mm/min]	< 100

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for black products

\*: conditioned according to ISO 1110

#### PROCESSING CONDITIONS:

Drying temperature/time : 75-85°C / 2-4h (with dew point of dried air < -30 °C)  
 Recommended melt temperature : 240-270 °C  
 Recommended mould temperature : 90-100 °C

*These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part. ECONAMID grades are not recommended for injection moulding hot runner systems with a diameter below 1mm*

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