

PENTAMID A GV30 HYD blue 5017/1

Polyamide 66
PENTAC Polymer GmbH

Message:
Normal viscosity, heat and hydrolysis stabilised polyamide 66, 30% glass fiber reinforced, special coloration

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Hydrolysis resistance heat stabilizer		
Features	Hydrolysis resistance Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Blue		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	5.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	%	ISO 62
Viscosity Number	140	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9600	MPa	ISO 527-2/1
Tensile Stress (Break)	150	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	255	°C	ISO 75-2/B
1.8 MPa, not annealed	245	°C	ISO 75-2/A
Melting Temperature	260	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	75	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50		IEC 60250
Comparative Tracking Index	450	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	HB		UL 94
Additional Information	Nominal Value		Test Method
ISO Shortname	PA66, MHWRC, 14-100 N, GF30		ISO 1874
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.050 - 0.13	%	
Suggested Max Regrind	20	%	
Rear Temperature	270 - 290	°C	
Middle Temperature	275 - 300	°C	
Front Temperature	280 - 290	°C	
Processing (Melt) Temp	270 - 300	°C	
Mold Temperature	60 - 100	°C	
Injection Pressure	78.0	MPa	
Screw L/D Ratio	18.0:1.0 to 22.0:1.0		
Screw Compression Ratio	2.2:1.0 to 2.8:1.0		

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