

PENTAMID A GV35 HYD 1.1 black

Polyamide 66
PENTAC Polymer GmbH

Message:
Normal viscosity, heat and highly hydrolysis stabilised polyamide 66, 35% glass fiber reinforced

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Additive		Hydrolysis resistance heat stabilizer		
Features		Hydrolysis resistance Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.80	--	%	ISO 294-4
Flow	0.35	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	5.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	8600	MPa	ISO 527-2/1
Tensile Stress (Break)	190	140	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.2	%	ISO 527-2/5
Flexural Modulus	9400	--	MPa	ISO 178
Flexural Stress	250	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, not annealed	255	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	32	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Comparative Tracking Index	425	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA66, MHWRC, 14-110 N, GF35-			ISO 1874
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.050 - 0.13		%	
Suggested Max Regrind	20		%	
Rear Temperature	275 - 295		°C	
Middle Temperature	280 - 305		°C	
Front Temperature	285 - 295		°C	
Processing (Melt) Temp	275 - 305		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	81.0		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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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