

PENTAMID A GK40 H schwarz

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66, 40% glass bead reinforced

General Information				
Filler / Reinforcement		Glass beads, 40% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.75	--	%	ISO 294-4
Flow direction	0.70	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	4.9	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.3	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	215	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5100	2400	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	70.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	20	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95 kJ/m ²	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	100	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method

Dielectric Strength (1.00 mm)	30	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.60	--		IEC 60250
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94
Additional Information				

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ISO Description: PA66, MHR, 14-050 N, GB40The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA66, MHR, 14-050 N, GB40

Injection	Dry	Unit	
Drying Temperature	80.0		°C
Drying Time	3.0		hr
Suggested Max Moisture	0.080		%
Suggested Max Regrind	20		%
Rear Temperature	270 - 295		°C
Middle Temperature	285 - 300		°C
Front Temperature	285 - 295		°C
Processing (Melt) Temp	290		°C
Mold Temperature	80.0		°C
Injection Pressure	84.0		MPa
Holding Pressure	50.4		MPa
Screw L/D Ratio	20.0:1.0		
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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