

PENTAMID L GV30 H schwarz

Polyamide 12

PENTAC Polymer GmbH

Message:

Normal viscosity, 30% glass fiber reinforced polyamide 12, heat stabilised

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Good dimensional stability		
		Rigidity, high		
		Good flexibility		
		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.24	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.55	--	%	ISO 294-4
Flow direction	0.35	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	1.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.70	--	%	ISO 62
Viscosity Number	160	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	120	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	100	85.0	MPa	ISO 527-2
Tensile Strain (Break)	6.0	7.0	%	ISO 527-2
Flexural Modulus	5500	--	MPa	ISO 178
Flexural Stress	110	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	24	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	100	kJ/m ²	ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	170	--	°C	ISO 75-2/B
1.8 MPa, not annealed	165	--	°C	ISO 75-2/A
Melting Temperature (DSC)	178	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	38	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.40	--		IEC 60250
Comparative Tracking Index	550	--	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

干燥
ISO Description: PA12, MHRC, 16-060, GF30The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA12, MHRC, 16-060, GF30

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.030	%
Suggested Max Regrind	20	%
Rear Temperature	245 - 270	°C
Middle Temperature	260 - 275	°C
Front Temperature	260 - 270	°C
Processing (Melt) Temp	265	°C
Mold Temperature	80.0	°C
Injection Pressure	65.0	MPa
Holding Pressure	39.0	MPa
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

