

PENTALLOY BP GV30 H natural

Polyamide 6 + PP
PENTAC Polymer GmbH

Message:
PA6+PP-alloy, 30% glass fiber reinforced, heat stabilised, resistant to corrosion

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Good corrosion resistance		
		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.80	--	%	ISO 294-4
Flow	0.40	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	3.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9300	7200	MPa	ISO 527-2/1
Tensile Stress (Break)	135	100	MPa	ISO 527-2/5
Tensile Strain (Break)	2.4	3.8	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	ISO 179/1eA
23°C	15	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	--	kJ/m ²	ISO 179/1eU
23°C	60	62	kJ/m ²	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	195	--	°C	ISO 75-2/A
Melting Temperature	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
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	245 - 270		°C	
Middle Temperature	250 - 275		°C	
Front Temperature	255 - 265		°C	
Processing (Melt) Temp	240 - 280		°C	
Mold Temperature	40 - 80		°C	
Injection Pressure	50.0		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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