PENTAMID B S GV10 MC20 H2 black

Polyamide 6

PENTAC Polymer GmbH

Message:

Low viscosity, high heat stabilised polyamide 6, 10% glass fiber and 20% mineral reinforced

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight Mineral filler, 20% filler by weight			
Additive	heat stabilizer			
Features	Low viscosity Heat resistance, high Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.80	--	%	ISO 294-4
Flow	0.50	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	6.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	--	%	ISO 62
Viscosity Number	120	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	8700	5400	MPa	ISO 527-2/1
Tensile Stress (Break)	110	75.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.7	3.9	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m²	ISO 179/1eA
23°C	5.0	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	--	kJ/m²	ISO 179/1eU

23°C	44	62	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	205	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°C	ISO 75-2/A
Melting Temperature	221	--	°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
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA6, MHRC, 12-090 N, GF10+MD20			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	265 - 280		°C	
Middle Temperature	275 - 300		°C	
Front Temperature	280 - 290		°C	
Processing (Melt) Temp	260 - 300		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	70.0		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			

Recommended distributors for this material

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