PENTAMID A GV15 MK15 H black

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66, 15% glass fiber and 15% mineral filled

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight Mineral filler, 15% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.34	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	5.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	ISO 62
Viscosity Number	140	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	6800	4800	MPa	ISO 527-2/1
Tensile Stress (Break)	110	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	60	70	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	240	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Dielectric Strength	70	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	4.00	--		IEC 60250
Comparative Tracking Index	450	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.2 mm)	HB	--		UL 94

Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA66, MHRC, 14-070 N, GF15 +-MD15			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	270 - 290	°C
Middle Temperature	275 - 300	°C
Front Temperature	280 - 290	°C
Processing (Melt) Temp	270 - 300	°C
Mold Temperature	60 - 100	°C
Injection Pressure	78.0	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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