PENTAMID A A

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, 35% glass fiber reinforced Polyamid 66, Heat stabilized, Hot oil resistant, ReCompound

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Recycled Content	Yes		
Features	Oil resistance Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.41	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.60	%	ISO 294-4
Flow	0.40	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	5.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	%	ISO 62
Viscosity Number	132	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10500	MPa	ISO 527-2/1
Tensile Stress (Break)	175	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	72	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	255	°C	ISO 75-2/B
1.8 MPa, not annealed	240	°C	ISO 75-2/A
Melting Temperature	260	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50		IEC 60250

Comparative Tracking Index	400	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.6 mm	HB		UL 94
3.2 mm	HB		UL 94
Additional Information	**Nominal Value**		**Test Method**
ISO Shortname	PA66, MHRC, 14-100, GF35		ISO 1874
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.050 - 0.13	%	
Suggested Max Regrind	20	%	
Rear Temperature	275 - 295	°C	
Middle Temperature	280 - 305	°C	
Front Temperature	285 - 295	°C	
Processing (Melt) Temp	275 - 305	°C	
Mold Temperature	60 - 100	°C	
Injection Pressure	81.0	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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