PENTAMID A SK H2 black

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, high heat stabilised polyamide 66, short cycle time

General Information				
Additive	Nucleating agent heat stabilizer			
Features	Nucleated Fast molding cycle 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	1.13	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	2.0	--	%	ISO 294-4
Flow	2.0	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	7.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.6	--	%	ISO 62
Viscosity Number	140	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3200	1250	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	55.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5	14	%	ISO 527-2/50
Flexural Modulus	3100	--	MPa	ISO 178
Flexural Stress	120	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.5	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.20	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	V-2	--		UL 94
3.2 mm	V-2	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA66, MHRC, 14-030 N	--		ISO 1874
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.10 - 0.18		%	
Suggested Max Regrind	20		%	
Rear Temperature	265 - 285		°C	
Middle Temperature	270 - 295		°C	
Front Temperature	275 - 285		°C	
Processing (Melt) Temp	265 - 295		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	60.0		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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