PENTAMID A SK H RC schwarz

Polyamide 66

PENTAC Polymer GmbH

Message:

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

General Information				
Additive	heat stabilizer			
Recycled Content	Yes			
Features	Fast molding cycle Thermal Stability			
Uses	Handle Furniture Connector			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.13	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	2.0	--	%	ISO 294-4
Flow direction	1.9	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	7.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Viscosity Number	130	--	cm³/g	ISO 307
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	165	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3200	1300	MPa	ISO 527-2/1
Tensile Stress				ISO 527-2
Yield	75.0	50.0	MPa	ISO 527-2
Fracture	--	50.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	3.5	15	%	ISO 527-2
Fracture	--	50	%	ISO 527-2
Flexural Modulus	3100	--	MPa	ISO 178

Flexural Stress	125	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.0	12	kJ/m^2	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 (DSC)	260	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Dielectric Strength (1.00 mm)	27	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.60	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
1.60 mm	V-2	--		UL 94
3.20 mm	V-2	--		UL 94

Additional Information

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ISO Description: PA66, MHRC, 14-030The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

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ISO Description: PA66, MHRC, 14-030Tensile Strain at Break, ISO 527: >50%

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.14	%
Suggested Max Regrind	20	%
Rear Temperature	260 - 285	°C
Middle Temperature	275 - 290	°C
Front Temperature	275 - 285	°C
Processing (Melt) Temp	280	°C
Mold Temperature	80.0	°C
Injection Pressure	60.0	MPa
Holding Pressure	36.0	MPa
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	

Recommended distributors for this material

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