

**PENTAMID A SK H MOS2 black**

PA66

Pentac Polymer GmbH

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	2.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	2.3 / *	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	3050 / 1150	MPa	ISO 527
Yield stress	75 / 45	MPa	ISO 527
Yield strain	5 / 15	%	ISO 527
Flexural modulus, 23°C	3100 / -	MPa	ISO 178
Flexural strength	115 / -	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 9	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	7.6 / *	%	Sim. to ISO 62
Humidity absorption	2.4 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m <sup>3</sup>	ISO 1183

<b>Film Properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Dynamic coefficient of friction	0.3 / *	-	ISO 8295

<b>Material specific properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Viscosity number	140 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3	h	-
Processing humidity	≤0.13	%	-
Mold temperature	60 - 100	°C	-
Feed temperature	80	°C	-
Zone 1	270	°C	-
Zone 2	280	°C	-
Zone 3	285	°C	-
Zone 4	290	°C	-
Zone 5	285	°C	-

**Characteristics****Processing**

Injection Molding

**Features**

Nucleated

**Delivery form**

Pellets, Black

**Certifications**

RoHS compliant

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### Additives

Lubricants

### Regional Availability

Europe

### Special Characteristics

Heat stabilized or stable to heat