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## PTS-MARKETING

## TECHNICAL INFORMATION

### >PTS-CREAMID-A3H7G8.2S \* 9217 e-schwarz PA teilaromatisch,40% GF,H-Stab.

03.03.2017

PROPERTIES		UNIT	STANDARD	VALUES
<b>PHYSICAL</b>				
Density		g/cm <sup>3</sup>	ISO 1183	<b>1,49</b>
Mould Shrinkage	(plate 61*61*2) [md/pmd]	%	ISO 294-4	<b>0,2 / 0,6</b>
Water Absorption	(24 h)	%	ISO 62	<b>0,55</b>
Water Absorption	(saturation)	%	ISO 62	<b>3,69</b>
<b>MECHANICAL</b>				
Izod-Impact Strength notched	+23/-30°C	kJ/m <sup>2</sup>	ISO 180/A	<b>12 (12)</b>
Charpy-Impact Strength notched	+23/-30°C	kJ/m <sup>2</sup>	ISO 179-1/1eA	<b>12 (12)</b>
Charpy-Impact Strength	+23/-30°C	kJ/m <sup>2</sup>	ISO 179-1/1eU	<b>70 (70)</b>
Tensile Yield Strength	(50mm/min)	MPa	ISO 527-1/-2	<b>220 (210)</b>
Tensile Modulus	( 1mm/min)	MPa	ISO 527-1/-2	<b>13630 (13000)</b>
Elongation at Break		%	ISO 527-1/-2	<b>3,0 (3,0)</b>
Flexural Strength		MPa	ISO 178	<b>280 (275)</b>
Flexural Modulus	+23 °C	MPa	ISO 178	<b>10500 (10000)</b>
Flexural Modulus	+90 °C	MPa	ISO 178	
<b>THERMAL</b>				
VICAT Softening Temperature	50°C/h 9,8 N	°C	ISO 306	<b>250</b>
VICAT Softening Temperature	50°C/h 49 N	°C	ISO 306	<b>240</b>
HDT (Heat Distortion Temp.)	0,45 MPa	°C	ISO 75-1/-2	<b>255</b>
HDT (Heat Distortion Temp.)	1,81 MPa	°C	ISO 75-1/-2	<b>235</b>
Ball Indentation test	125 °C		DIN EN 60695-10-2	
Ball Indentation test	165 °C		DIN EN 60695-10-2	
Limit Temperature	after 20 000 h	°C	IEC 60216	
<b>ELECTRICAL</b>				
Tracking Index-CTI	Solution A/B	V	IEC 60112	<b>600</b>
Dielectric Strength	(2 mm)	kV/mm	ASTM D149	
<b>FLAMMABILITY</b>				
UL94	(0,8/1,6/3,2)mm	class	UL 94	<b>HB / HB / HB</b>
Glow wire test 2mm	(550/650/750/850/960) °C		DIN EN 60695-2-13	
Oxygen Index LOI		%	ISO 4589	

Values: dry: test bars "as molded" stored 24h, 23°C

Values(): cond.: ISO 291 / ISO 1110 or: with V-PTS-CREAMID/CREAMON before cross-linking

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**>PTS-CREAMID-A3H7G8.2S \* 9217 e-schwarz**

PA teilaromatisch,40% GF,H-Stab.

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PTS-CREAMID-A3H7G8.2S\*9217 is a easy-flow semiaromatic modified PA, 40% glassfibre reinforced and heat stabilized for high thermal and mechanical load.

That grade has an excellent surface quality and shows less warpage.

The material was manufactured with the so called cc-technologie (controlled cristallisation technology). That technology allows to influence the warpage, shrinkage and processability of high glass fibre reinforced PA6.6 compounds.

Even in conditioned state, this type shows excellent mechanical strength and outstanding dimensional stability.

Processing recommendations:

Melt temperature : 268°C  
Barrel temperatures: 280°C - 300°C  
Mold temperature : 80°C - 120°C

Pre-drying:

The material is delivered in closed aluminium coated bags and can be processed without drying. But open bags with material that contains humidity must be dried in a dry air dryer at a temperature of 80-90°C for 3-5 hours.

Maximum humidity for processing: 0,12%