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PTS-MARKETING

TECHNICAL INFORMATION

>PTS-CREAMID-A3H7G10.2S * 9217 e-schwarz PA Teilaromat, 50%GF

03.03.2017

PROPERTIES	UNIT	STANDARD	VALUES
PHYSICAL			
Density	g/cm ³	ISO 1183	1,57
Mould Shrinkage (plate 61*61*2) [md/pmd]	%	ISO 294-4	0,1 / 0,4
Water Absorption (24 h)	%	ISO 62	0,4
Water Absorption (saturation)	%	ISO 62	3,0
MECHANICAL			
Izod-Impact Strength notched +23/-30°C	kJ/m ²	ISO 180/A	14 (15)
Charpy-Impact Strength notched +23/-30°C	kJ/m ²	ISO 179-1/1eA	15 / 15 (16 / 15)
Charpy-Impact Strength +23/-30°C	kJ/m ²	ISO 179-1/1eU	75 / 70 (75 / 60)
Tensile Yield Strength (50mm/min)	MPa	ISO 527-1/-2	245 (240)
Tensile Modulus (1mm/min)	MPa	ISO 527-1/-2	17500 (17000)
Elongation at Break	%	ISO 527-1/-2	3,0 (3,0)
Flexural Strength	MPa	ISO 178	340 (330)
Flexural Modulus +23 °C	MPa	ISO 178	13500 (12500)
Flexural Modulus +90 °C	MPa	ISO 178	
THERMAL			
VICAT Softening Temperature 50°C/h 9,8 N	°C	ISO 306	250
VICAT Softening Temperature 50°C/h 49 N	°C	ISO 306	240
HDT (Heat Distortion Temp.) 0,45 MPa	°C	ISO 75-1/-2	255
HDT (Heat Distortion Temp.) 1,81 MPa	°C	ISO 75-1/-2	235
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	
ELECTRICAL			
Tracking Index-CTI Solution A/B	V	IEC 60112	600
Dielectric Strength (2 mm)	kV/mm	ASTM D149	33
FLAMMABILITY			
UL94 (0,8/1,6/3,2)mm	class	UL 94	HB / HB / HB
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-A3H7G10.2S*9217 aesthetic black is a partially aromatic polyamide modified PA6.6 with 50% glass fibre reinforcement, ultra-flow properties, heat and uv-stabilized for applications requiring high thermal and mechanical load.

That grades shows high surface quality appearance combined with less warp. Conditioned this product has high mechanical properties and an excellent dimension stability.

The PTS development called "controlled crystallisation technology" enables a high quality surface in spite of a high glass fibre content.

Injection molding processing recommendations:

melt temperature	:	260°C
recommended processing temperature	:	280-300°C
mold temperature	:	80-120°C

Pre-drying:

Under normal conditions the material is protected against humidity approximately half a year (multi-layer packaging).

Open bags or material which is too long on stock should be pre-dried 2-5 hours/80°C (dry air oven).

Maximum allowed humidity for processing: 0,12%.