Tisan
Plastics Engineer

TECHNICAL DATA SHEET
HYPERPOL®

PRODUCT CODE	**HYPERPOL SP 20D03 R01**
PRODUCT DESCRIPTION	**PPS %20 GLASS FIBER REINFORCED**

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
PHYSICAL	DENSITY	-	ISO 1183	g/cm^3	**1.48-1.50**
	MOLDING SHRINKAGE	PARALLEL/ NORMAL	ISO 294-4	%	**0.3-0.7**
	MOISTURE CONTENT	-	ISO 15512	%	**0.01-0.03**

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
MECHANICAL	YIELD STRENGTH	+23°C	ISO 527-2	MPa	**120-130**
	TENSILE STRESS AT BREAK	+23°C	ISO 527-2	MPa	**-**
	TENSILE STRAIN AT BREAK	+23°C	ISO 527-2	%	**1.5-2**
	TENSILE MODULUS	+23°C	ISO 527-2	MPa	**8500-10000**
	IZOD IMPACT STRENGTH, NOTCHED	+23°C	ISO 180/A	kJ/m^2	**7-10**
	IZOD IMPACT STRENGTH, NOTCHED	-30°C	ISO 180/A	kJ/m^2	**-**
	IZOD IMPACT STRENGTH, UNNOTCHED	+23°C	ISO 180/U	kJ/m^2	**35-40**
	IZOD IMPACT STRENGTH, UNNOTCHED	-30°C	ISO 180/U	kJ/m^2	**-**

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
THERMAL	VICAT SOFTENING TEMPERATURE	50 N	ISO 306	°C	**-**
	HEAT DEFLECTION TEMPERATURE	0,45 MPa	ISO 75	°C	**270-280**
	HEAT DEFLECTION TEMPERATURE	1,80 MPa	ISO 75	°C	**255-260**
	MELTING TEMPERATURE	10 K/min	ISO 11357	°C	**310-330**
	BALL PRESSURE TEST	120 °C	ISO 60695-10-2	-	**-**

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	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
ELECTRICAL&FLAMMABILITY	FLAME RATING	0,75 mm	UL 94	-	**V0**
	FLAME RATING	1,6 mm	UL 94	-	**V0**
	GLOW WIRE FLAMMABILITY INDEX	2 mm	IEC 60695	°C	**960**
	GLOW WIRE IGNITABILITY TEMPERATURE	2 mm	IEC 60695	°C	**-**
	COMPARATIVE TRACKING INDEX	Solution A	ISO 60112	Volt	**-**
	VOLUME RESISTIVITY	-	IEC 60093	Ohm.cm	**1E+16**
	SURFACE RESISTIVITY	-	IEC 60093	Ohm	**-**

	PROPERTIES	CONDITION	VALUE
INJECTION PROCESS	PREDRYING TEMPERATURE	°C	**140-150**
	PREDRYING TIME	hours	**5-6**
	MELTING TEMPERATURE	°C	**320-340**
	NOZZLE TEMPERATURE	°C	**330-340**
	PRE- 3 REGION TEMPERATURE	°C	**310-320**
	MID-2 REGION TEMPERATURE	°C	**320-330**
	AFT-1 REGION TEMPERATURE	°C	**330-345**
	MOLD TEMPERATURE	°C	**140-170**
	HOLD PRESSURE	MPa	**-**

Data are based on dry conditions