TECHNICAL DATA SHEET

TİSETİLEN®

PRODUCT CODE	**TİSETİLEN N F01 K02 HS R01**
PRODUCT DESCRIPTION	**PE, FLAME RETARDANT-HALOGEN (RoHS COMPLIANCE), HEAT STABILIZED, NATURAL**

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
PHYSICAL	DENSITY	-	ISO 1183	g/cm^3	**1.12-1.15**
	MOLDING SHRINKAGE	PARALLEL/NORMAL	ISO 294-4	%	**1.2/1.8**
	MOISTURE CONTENT	-	ISO 15512	%	**-**

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
MECHANICAL	YIELD STRENGTH	+23°C	ISO 527-2	MPa	**-**
	TENSILE STRESS AT BREAK	+23°C	ISO 527-2	MPa	**10-12**
	TENSILE STRAIN AT BREAK	+23°C	ISO 527-2	%	**250-350**
	TENSILE MODULUS	+23°C	ISO 527-2	MPa	**250-300**
	IZOD IMPACT STRENGTH, NOTCHED	+23°C	ISO 180/A	kJ/m^2	**-**
	IZOD IMPACT STRENGTH, NOTCHED	-30°C	ISO 180/A	kJ/m^2	**-**
	IZOD IMPACT STRENGTH, UNNOTCHED	+23°C	ISO 180/U	kJ/m^2	**-**
	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	**-**
	HEAT DEFLECTION TEMPERATURE	1,80 MPa	ISO 75	°C	**-**
	MELTING TEMPERATURE	10 K/min	ISO 11357	°C	**-**
	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	-	**V2**
	FLAME RATING	1,6 mm	UL 94	-	**V2**
	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	**250**
	VOLUME RESISTIVITY	-	IEC 60093	Ohm.cm	**1E+16**
	SURFACE RESISTIVITY	-	IEC 60093	Ohm	**1E+14**

	PROPERTIES	UNITS	VALUE
INJECTION PROCESS	PREDRYING TEMPERATURE	°C	**-**
	PREDRYING TIME	hours	**-**
	MELTING TEMPERATURE	°C	**<170**
	NOZZLE TEMPERATURE	°C	**180**
	PRE-3 REGION TEMPERATURE	°C	**170**
	MID-2 REGION TEMPERATURE	°C	**160**
	AFT-1 REGION TEMPERATURE	°C	**150**
	MOLD TEMPERATURE	°C	**120**
	HOLD PRESSURE	MPa	**40-80**

Data are based on dry conditions