

PRODUCT CODE	TİSETİLEN N 20D03 R01
PRODUCT DESCRIPTION	PE, 20% GLASS FIBER REINFORCED, NATURAL

	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
PHYSICAL	DENSITY	-	ISO 1183	g/cm ³	1.08-1.11
	MOLDING SHRINKAGE	PARALLEL/NORMAL	ISO 294-4	%	0.4/0.9
	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	35-45
	TENSILE STRAIN AT BREAK	+23°C	ISO 527-2	%	2-3
	TENSILE MODULUS	+23°C	ISO 527-2	MPa	3000-4000
	IZOD IMPACT STRENGTH, NOTCHED	+23°C	ISO 180/A	kJ/m ²	10-12
	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	220
	MELTING TEMPERATURE	10 K/min	ISO 11357	°C	-
	BALL PRESSURE TEST	120 °C	ISO 60695-10-2	-	-

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ELECTRICAL&FLAMMABILITY	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
	FLAME RATING	0,75 mm	UL 94	-	HB
	FLAME RATING	1,6 mm	UL 94	-	HB
	GLOW WIRE FLAMMABILITY INDEX	2 mm	IEC 60695	°C	-
	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

INJECTION PROCESS	PROPERTIES	UNITS	VALUE
	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