

## TECHNICAL DATA SHEET

# ECOSTAR®

**PRODUCT CODE** : H0100100036P  
**PRODUCT DESCRIPTION** : PA66, UNR NATURAL

PHYSICAL	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
	DENSITY	-	ISO 1183	g/cm <sup>3</sup>	1.13-1.15
	MOLDING SHRINKAGE	PARALLEL/NORMAL	ISO 294-4	%	<2
	MOISTURE CONTENT	-	ISO 15512	%	<0.2

MECHANICAL	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
	YIELD STRENGTH	+23°C	ISO 527-2	MPa	70-80
	TENSILE STRESS AT BREAK	+23°C	ISO 527-2	MPa	-
	TENSILE STRAIN AT BREAK	+23°C	ISO 527-2	%	>20
	TENSILE MODULUS	+23°C	ISO 527-2	MPa	2500-300
	IZOD IMPACT STRENGTH, NOTCHED	+23°C	ISO 180/A	kJ/m <sup>2</sup>	4-6

THERMAL	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
	VICAT SOFTENING TEMPERATURE	50 N	ISO 306	°C	-
	HEAT DEFLECTION TEMPERATURE	0,45 MPa	ISO 75	°C	170-190
	HEAT DEFLECTION TEMPERATURE	1,80 MPa	ISO 75	°C	55-65
MELTING TEMPERATURE	10 K/min	ISO 11357	°C	260-265	

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 ECOSTAR IS A REGISTERED TRADEMARK OF TİSAN  
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ELECTRICAL & FLAMMABILITY	PROPERTIES	CONDITION	STANDARD	UNITS	VALUE
	FLAME RATING	0,75 mm	UL 94	-	-
	FLAME RATING	1,6 mm	UL 94	-	-
	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	<b>600</b>
	VOLUME RESISTIVITY	-	IEC 60093	Ohm.cm	<b>1E+15</b>
	SURFACE RESISTIVITY	-	IEC 60093	Ohm	<b>1E+13</b>

INJECTION PROCESS	PROPERTIES	UNITS	VALUE
	PREDRYING TEMPERATURE	°C	<b>80-110</b>
	PREDRYING TIME	hours	<b>3-4</b>
	MELTING TEMPERATURE	°C	<b>230-250</b>
	NOZZLE TEMPERATURE	°C	<b>210-230</b>
	PRE- 3 REGION TEMPERATURE	°C	<b>240-260</b>
	MID-2 REGION TEMPERATURE	°C	<b>240-260</b>
	AFT-1 REGION TEMPERATURE	°C	<b>240-260</b>
	MOLD TEMPERATURE	°C	<b>50-90</b>
	HOLD PRESSURE	MPa	<b>50-100</b>

Data are based on dry conditions

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