



TECHNICAL DATA – TIVAR 88 BLUE
PREMIUM GRADE LINING MATERIAL

<i>MATERIAL PROPERTIES</i>	<i>STANDARD</i>	<i>UNIT</i>	<i>VALUE</i>
MOLECULAR WEIGHT		g/mol	approx 9*10 ⁶
DENSITY	ISO 1183	kg/m ³	934
WATER ABSORPTION (@23 °C Saturation)	ISO 62	%	<0.01
<i>MECHANICAL</i>			
TENSILE STRESS AT YIELD	ISO 527	MPa	> 17
ELONGATION AT BREAK	ISO 527	%	> 250
TENSILE MODULUS	ISO 527	MPa	790
IMPACT STRENGTH (Charpy) @ 23°C	ISO 179	(kJ/m ²)	no break
NOTCHED IMPACT STRENGTH (Charpy) @ 23°C	ISO 11542-2	(kJ/m ²)	> 120
BALL INDENTATION HARDNESS	ISO2039-1	(N/mm ²)	30-35
SHORE HARDNESS	ISO 868	-	60-65
COEFFICIENT OF FRICTION	-	-	approx 0.15
ABRASION (SAND SLURRY)	-	%	80
<i>THERMAL</i>			
MELTING POINT	ISO 3146	°C	135-138
SOFTENING POINT	ISO 306	°C	80
COEFFICIENT OF LINEAR THERMAL EXPANSION (23-80°C)	ISO 11359	K ⁻¹	approx 2*10 ⁻⁴
THERMAL CONDUCTIVITY	ISO 52612	W/m*K	approx 0.4
MAX WORK TEMP	-	°C	80
MAX BRIEF TEMP	-	°C	90
MIN TEMP	-	°C	-200
<i>ELECTRICAL</i>			
DISSIPATION FACTOR (100HZ)	IEC 60250	-	3.9* 10 ⁻⁴
VOLUME RESISTIVITY	IEC 60093	Ohm*m	> 10 ¹²
SURFACE RESISTIVITY	IEC 60093	Ohm	> 10 ¹²
DIELECTRIC STRENGTH	IEC 60243	kV/mm	45
<i>PHYSIOLOGICAL</i>			
FOOD CONFORMITY TO EU DIRECTIVE 2002/72/EC			NO
FDA REG 21CFR177.1520			NO
FDA REG 21CFR178.2010			NO
FDA REG 21CFR178.3297			NO

TECHNICAL DATA GIVEN ABOVE REFERS TO A 40mm THICK SHEET, THIS DATA MAY VARY SLIGHTLY DEPENDING ON MATERIAL THICKNESS.

ALL INFORMATION IS GIVEN IN GOOD FAITH AND WITHOUT WARRANTY

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