

# - RADEL R5100 BK 937 -

PROPERTIES	UNIT	TEST METHOD	VALUES
<b><u>Physical</u></b>			
unreinforced			
Density	g/cm <sup>3</sup>	ASTM D 1505	1.30
Water absorption at 24 H	%	ASTM D 570	0.37
Coefficient of thermal expansion (x 10 <sup>-5</sup> )	1/°C	ASTM D 696	5.5
<b><u>Mechanical</u></b>			
Tensile stress	MPa	ASTM D 638	70
Tensile modulus	MPa	ASTM D 638	2350
Elongation at break	%	ASTM D 638	60-120
Flexural stress	MPa	ASTM D 790	91
Flexural modulus	MPa	ASTM D 790	2410
Impact Izod notched (3.2 mm)	J/m	ASTM D 256	693
<b><u>Thermal</u></b>			
HDT / Af at 1,80 MPa	°C	ASTM D 648	207
Indices thermal	°C	UL 746B	-
UL 94 rating flame class rating / at mm thickness	Class / mm	UL 94	V0 / 1.6mm
<b><u>Electrical</u></b>			
Dielectric strength (3.2 mm)	kV/mm	ASTM D 149	15
Dielectric constant at 60 Hz		ASTM D 150	3.44
Dielectric constant at 1 KHz		ASTM D 150	3.45
Dielectric constant at 1 MHz		ASTM D 150	-
Dissipation factor at 60 Hz		ASTM D 150	-
Dissipation factor at 1 KHz		ASTM D 150	-
Dissipation factor at 1 MHz		ASTM D 150	-
Volume resistivity	Ohm.cm	ASTM D 257	9 x 10 <sup>16</sup>

*The values indicated are it with titles codes and do not engage to in no case the responsibility for company PHT*



**PLASTIQUES HAUTES TECHNOLOGIES**

ZA de Malvaisin - 58 rue du Vercors – 38240 LE VERSOUD  
Tél (33) 04 76 776 990 - Fax (33) 04 76 776 994