

PO 01 - Table of properties

PROPERTIE	VALUE	UNITS	TEST METHOD
<b>General</b>			
Density <sup>(1)</sup>	1,19	g/cm <sup>3</sup>	ISO 1182, Method A,C o D
Water absorption	0,50 <sup>(2)</sup>	%	UNE-EN ISO 62, Method 1 (24h, 23°C)
Calorific power (760 mm and 0°C)	1,255	kJ/Kg °C	-
Ignition temperature T <sub>i</sub>	300	°C	ASTM-1929
Self-ignition temperature T <sub>ai</sub>	430	°C	
Reaction to fire by radiation	M4	-	UNE-23-727
<b>Thermal</b>			
Specific heat	0,35	cal/g °C	-
Heat conductivity	4,5 x 10 <sup>-4</sup>	cal cm/cm <sup>2</sup> seg °C	DIN52612
Heat transmission coefficient K 3 mm	5,50	kcal/m <sup>2</sup> h °C	-
Softening temperature VICAT	118	°C	UNE-EN ISO 306 Method A50
Temperature for buckling under load	98	°C	UNE-EN ISO 75/2-A
Recommended moulding temperature	150 - 170	°C	-
Maximum service temperature Flat sheet Moulded part	80 - 85 75 - 80	°C	IRPEN
Linear dilation coefficient	7 x 10 <sup>-5</sup>	K <sup>-1</sup>	ISO 11359-2
Dimensional variations at high temperature (contraction)	Max. 2,5	%	UNE-EN ISO 7823-1 Schedule A
<b>Mechanical</b>			
Tensile strength	Min. 70	Mpa	UNE-EN ISO 527-2/1B/5
Modulus of elasticity in traction	Min. 3000		
Deformation in traction	Min. 4	%	
Flexural Strength	110	Mpa	UNE-EN ISO 178
Resistance to Charpy impact (test piece not notched)	Min. 13	kJ/m <sup>2</sup>	ISO 179/1 Fu
Rockwell hardness	100	Escala M	UNE-EN ISO 2039-2
Friction coefficient PMMA / PMMA PMMA / Steel	0,80 0,48 - 0,55	°C	IRPEN