

# PURE® - Technical Data Sheet



## PURE® - sheets

Version: 01-2016

Product description Sheets based on consolidated Pure®-fabric produced of co-extruded sealable tape

Colours	grey and white(standard)
width	1200 mm(standard)
length	Standard stock 2400 mm Other lengths on request
thickness	Standard 0,4 – 1,6 mm (app. 0,13 mm /layer) On request other thickness available PURE® fabric is easy to be converted into thick panels (up to 2 cm) Optionally thin material on roll

Technical Properties		Test method	Value	Unit
Bulk density		ASTM D792	0.78	g/cm <sup>3</sup>
Tensile modulus		ISO 527-4	5.5	GPa
Tensile strength		ISO 527-4	200	MPa
Tensile strain to failure		ISO 527-4	9	%
Flexural modulus		ISO 178	4.5-5.5	GPa
Charpy Impact (FN)		ISO 179	(N, no break)!	kJ/m <sup>2</sup>
Charpy Impact (EP notched type A)		ISO 179	(P) 140	kJ/m <sup>2</sup>
Izod Impact (FN)		ISO 180	(N, no break)!	kJ/m <sup>2</sup>
Izod Impact (EP notched type A)		ISO 180	(P) 126	kJ/m <sup>2</sup>
Instrumented Falling Dart Impact (23 °C) (2.2 mm, clamped, 20 mm striker)		ISO 6603-2	9.51 51.46	kN (peak) J (at failure)
Instrumented Falling Dart Impact (23 °C) (2.2 mm, clamped, 10 mm striker)		ISO 6603-2	4.96 16.40	kN (peak) J (at failure)
Instrumented Falling Dart Impact (-40 °C) (2.2 mm, clamped, 10 mm striker)		ISO 6603-2	6.53 22.38	kN (peak) J (at failure)
Heat Deflection Temperature	1820 kPa	ASTM D648	95	°C
	455 kPa		130	°C
Coefficient of Thermal Expansion (-20 °C to 100 °C)		ASTM E228	23	10 <sup>-6</sup> K <sup>-1</sup>
Coefficient of Thermal Conductivity (2.25 mm)		EN-ISO 12567-1	0.044*	W/m.K
Fire Behavior – burning rate (1.6 mm)		ISO 3795	29	mm/min

\* Depends strongly on the sheet thickness