HYCCO

Material Data Sheet *LT200+*

This LT200+ material is suitable for low temperature PEM fuel cells. Thanks to the unique properties of carbon fiber, this materials shows very high electrical conductivity, high flexibility, excellent mechanical properties, resistance to high temperature, and outstanding chemical stability.

Physical data

	Units	*Values*
Nominal web thickness	mm	0.26
Density	g/cm^{-3}	1.83
Plate density homogeneity	g/cm3	STD < 0.04 g/cm^3
Hydrogen permeability	[mol/s/m^2/MPa]	< 3 x 10^{-05} @ Std pressure and temperature
Thermal conductivity (through plane)	$W \cdot m^{-1} \cdot K^{-1}$	1
Thermal conductivity (in plane)	$W \cdot m^{-1} \cdot K^{-1}$	9,4
Areal Specific Resistance (through plane)	$m\Omega \cdot cm^2$	< 5
Max temperature use	°C	120

Mechanical properties

	Units	*Values*
Young modulus	GPa	12,3
Tensile strength	MPa	67
% of elongation before break	%	0.65
Poisson coefficient	-	0.33
Flexural strength	MPa	144
Thermal expansion @80°C	1/K	1,4 x 10^{-4}

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