

### **Basic EP 1 HDPE Smooth Pipe Material Data**

EP 1 HDPE pipes consist of solid black layer.

Our EP 1 HDPE pipes comply to PTI Guide Specification Issue April 2003  
page 14 clause 2.7.1 according part 2 point d) to ASTM D 3035.

The required minimum cell class value is PE 345433 C.

As ASTM D 3035 is the specification for HDPE pipe production based on controlled outside diameter it mainly refers to sizes only and does not show the meaning of cell class PE 345433 C in the this norm itself but in clause 5.4 last sentence refers to the material norm ASTM D 3350 which informs about the raw material classification itself.

In fact our pipes exceed the minimum requirement by being rated PE 345444 C.

	Requirements		Norm	Cell Class	Required PTI value	EP 1 Pipe value
	PTI	others				
<b>Polymer Data</b>						
Density	x		ASTM D 3350	3	0,941 - 0,955	0,941 - 0,946
Melt Flow	x		ASTM D 3350	4	< 0,15	< 0,15
Flexural Modulus	x		ASTM D 3350	5	758-1103	800 - 950
Tensile Strength at yield	x		ASTM D 3350	4	21 - 24	21 - 24
ESC	x		ASTM D 3350	3	> 192	> 1500
Hydostatic Design Basis	x		ASTM D 3350	3	8,62	11,1