PPH Profiles - Technical Data Sheet

the people for plastics

I. Physical Properties			
	Test method	**Unit**	**Value**
Specific gravity	ISO 1183	g/cm³	0,91
Water absorption	ISO 62	%	0,01
Maximum permissible service temp.			-
(no stronger mechanical stress involved)	-		
Upper temperature limit	-	°C	100
Lower temperature limit	-	°C	5

II. Mechanical Properties			
	Test method	**Unit**	**Value**
Tensile strength at yield	ISO 527	MPa	33
Elongation at yield.	ISO 527	%	14
Tensile strength at break	ISO 527	MPa	-
Elongation at break	ISO 527	%	>50
Impact strength	ISO 179	kJ/m_2	no break
Notch impact strength	ISO 179	kJ/m_2	13
Ball indentation / Rockwell hardness	ISO 2039-1	MPa	71
ShoreD	DIN 53505		70
Flexural strength	ISO 178	MPa	-
Modulus of elasticity	ISO 527	MPa	1450

III. Thermal Properties			
	Test method	**Unit**	**Value**
Vicat-softening point VST/B/50	ISO 306	°C	83
VST/A/50		°C	-
Heat deflection temperature HDT/B	ISO 75	°C	95
HDT/A		°C	-
Coefficient of linear thermal expansion	DIN 53752	$K_1 * 10_4$	1,5
Thermal conductivity at 20 °C		W/(m∗K)	0,22

IV. Electrical Properties			
	Test method	**Unit**	**Value**
Volume resistivity	VDE 0303	Ω∗cm	$>10_{16}$
Surface resistivity		Ω	$\geq 10_{16}$
Dielectric constant at 1MHz		-	2,3
Dielectric loss factor at 1 MHz	DIN 53483	-	0,0002
Dielectric strength	VDE 0303	kV/mm	-
Tracking resistance	IEC 60112	-	KB> 600

V. Additional Data			
	Test method	**Unit**	**Value**
Bond ability		-	Fair
Friction coefficient	DIN 53375	-	0,3
Flammability	UL 94	-	HB
UV stabilisation	-	-	Fair