



Polypropylene Natural

PPH / PP-DWST - Homopolymer

Colour: Natural

Density: 0.905g/cm³

Material Data Sheet

Mechanical Properties	Value	Unit	DIN/EN/ISO
Tensile strength at yield	30	MPa	527/D638
Elongation at yield	8	%	527
Modulus of elasticity in tension	1600	MPa	527/D638
Impact strength	No br.	kJ/m ²	179/D256
Creep rupture strength after 1000hrs with static load	22	MPa	-
Time yield limit for 1% elongation after 1000hrs	4	MPa	-
Coefficient of friction against hardened and ground steel P= 0.05 N/mm ² , v= 0.6m/s	0.3	-	-
Ball indentation hardness	70	MPa	2039-1
Shore hardness D	70	-	868

Thermal Properties	Value	Unit	DIN/EN/ISO
Glass transition temperature	-18	°C	53736
Crystalline melting point	165	°C	53736
Service temperature (short term)	130	°C	-
Service temperature (long term)	100	°C	-
Coefficient of thermal expansion	17	10 ⁻⁵ K	53483/D696
Specific heat	1.7	J/(g*K)	-
Coefficient of thermal conductivity	0.22	W/(K*m)	-

Electrical properties	Value	Unit	DIN/IEC
Surface resistivity	10 ¹⁴	Ohm	60093
Dielectric strength	58	kV/mm	60243-1

Other properties	Value	Unit	DIN/EN/ISO/IEC
Water absorption @ saturation @ 23°C	0.03	%	62
Resistance to hot water, washing soda	Resistant	-	-
Resistance to weathering	No	-	-
Flammability (UL94)	HB	-	-



Direct Plastics Ltd. Unit 14 Portland Business Park, Richmond Park Road, Sheffield, S13 8HS

The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples. We reserve the right of technical alterations.