TECHNICAL DATA SHEET

Witcom PP-EC-HI, based on Polypropylene (PP)

conductive, high impact

Properties	Test methods	Units	PP-EC-HI
Physical properties			
Specific gravity	ISO 1183	g/cm^3	1,01
Water absorption at saturation, 23 °C	ISO 62	%	0,04
Humidity absorption, 23 °C/50 % r.h.	ISO 62	%	0,01
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	1,3 - 1,8
Mechanical properties			
Tensile strength (max.)	ISO 527	MPa	25
Elongation at break	ISO 527	%	>25
Flexural strength	ISO 178	MPa	35
Flexural modulus	ISO 178	GPa	1,6
IZOD impact strength, notched	ISO 180/1eA	kJ/m^2	50
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m^2	no break
Thermal properties			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	60
Relative temperature index, 3 mm, with impact	UL 746B	°C	70
Coefficient of linear thermal expansion	ISO 11359	$K\text{-}1 \cdot 10^{-5}$	12,0
Flammability			
Burning behaviour	ISO 1210	-	HB @ 3,0 mm
UL recognition	UL94	-	-
Electrical properties			
Surface resistivity	ASTM D257	Ω/sq	$<10^3$
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

Processing conditions (injection moulding)

Drying conditions (dehumidifying drier)	:	2 - 4 Hours @ 80 °C
Maximum allowable moisture content	:	0,05 %
Melt temperature	:	200 - 260 °C
Mould temperature	:	40 - 80 °C
Screw speed	:	0,1 - 0,25 m/s
Back pressure	:	0 - 1,0 MPa
Injection pressure	:	Keep to a minimum
Injection speed	:	Fast ram speed
Hold pressure	:	Keep to a minimum

Revision date: 09-03-2009