

Polyamide 6 of natural colour, externally lubricated,
easy flowing and fast processing, for injection moulding

Properties	Test Condition	Method	Unit	B EXL
Physical				
Density	23 °C	ASTM D 792	g/cm ³	1,14
Water absorption	24 h - 23 °C	ASTM D 570	%	9 - 10
Humidity absorption from atmosphere	23 °C - 50% H.R.	ASTM D 570	%	3,0
Cristalline Melting Temperature	D.S.C.	-	°C	220
Mechanical				
				dry / wet
Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	85 / 45
Tensile Stress at break	50 mm/min.	"	MPa	-
Elongation	50 mm/min	"	%	50 / > 100
Flexural maximum Stress	1,3 mm/min.	ASTM D790	MPa	110 / 40
Flexural elastic Modulus	1,3 mm/min.	"	MPa	2900 / 900
IZOD notched impact Strength 3,2 mm	+23°C	ASTM D256	J/m	50 / > 400
"	0°C	"	J/m	-
"	-20°C	"	J/m	40 / > 200
Rockwell Hardness	23 °C	ASTM D 785	Scale R	120 / 80
Thermal				
				Dry
Heat distortion temperature H.D.T	1.82 MPa	ASTM D648	°C	60
Linear expansion coefficient	+23°C / + 55° C	ISO 11359-2	10 ⁻⁵ K ⁻¹	10
Flame Behaviour				
				Dry
Glow wire temperature (G.W.T.)	S= 2.0 mm	IEC 695-2-1	°C	750
UL 94 rating	S= 1.6 mm	UL 94	Class	V2
	S= 3.2 mm	"	"	V2
Electrical				
				dry / wet
Relative permittivity	1 MHz - dry	IEC 60250	-	3,5 / 4,0
Dissipation factor	1 MHz - dry	IEC 60250	-	0,02 / 0,1
Dielectric strength	S= 1 mm.	IEC 60243-1	KV/mm	30 / 25
Surface resistivity	dry	IEC 60093	ohm	10 ¹⁴ / 10 ¹³
Volume resistivity	dry	IEC 60093	ohm cm.	10 ¹⁵ / 10 ¹²
Various				
Moulding shrinkage	Parallel Transversal	- -	%	1 - 2,5

NOTE:

Data are provided for guidance purpose only, and cannot be considered as Sale Specification.