SCANFILL BIO
Foil GYX52C1

Thermoformning grade, Biopolymer

PROPERTY	VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	1,40	g/cm³	ISO 1183
MFI at 190°C/2,16kg	<1	g/10min	ISO 1133
MECHANICAL PROPERTIES			
Flexural modulus at +23°C	3900	MPa	ISO 178
Maximum flexural strength	39	MPa	ISO 178
Maximum tensile strength	20	MPa	ISO 527-2
Elongation at break	6	%	ISO 527-2
Elongation at yield	4	%	ISO 527-2
IMPACT PROPERTIES			
Notched Charpy at +23°C	6	kJ/m²	ISO 179
Notched Charpy at -20°C	3,5	kJ/m²	ISO 179
Unnotched Charpy at +23°C		kJ/m²	ISO 179
Unnotched Charpy at -20°C		kJ/m²	ISO 179
THERMAL PROPERTIES			
HDT 120°C/h at 455kPa (B)		°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)		°C	ISO 75/1
Vicat 50°C/h at 9,81N (A)		°C	ISO 306
Vicat 50°C/h at 49,05N (B)		°C	ISO 306
FLAME RETARDENT PROPERTIES			
GWFI at 2 mm		°C	IEC 60695-2-12
UL94 at 1,6 mm	HB		UL94
ADDITIONAL INFORMATION			
Filler content	52	±2%	ISO 3451
Mould shrinkage (with flow)	0,9-1,2	%	Polykemi
Mould shrinkage (across flow)	0,9-1,2	%	Polykemi
PROCESS INSTRUCTIONS			
Drying time	2-4	h	
Drying temperature	70-80	°C	
Melt temperature	180-230	°C	
Mould temperature		°C	