

# SCANFILL BIO BOTTLE GY45C2

Extrusion blow moulding grade, Biopolymer

PROPERTY	VALUE	UNIT	STANDARD
<b>PHYSICAL PROPERTIES</b>			
Density	1,37	g/cm <sup>3</sup>	ISO 1183
MFI at 190°C/2,16kg	0,1	g/10min	ISO 1133
<b>MECHANICAL PROPERTIES</b>			
Flexural modulus at +23°C	1800	MPa	ISO 178
Maximum flexural strength	31	MPa	ISO 178
Maximum tensile strength	20	MPa	ISO 527-2
Elongation at break		%	ISO 527-2
Elongation at yield	15	%	ISO 527-2
<b>IMPACT PROPERTIES</b>			
Notched Charpy at +23°C	28	kJ/m <sup>2</sup>	ISO 179
Notched Charpy at -20°C	18	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at +23°C	NB	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at -20°C	NB	kJ/m <sup>2</sup>	ISO 179
<b>THERMAL PROPERTIES</b>			
HDT 120°C/h at 455kPa (B)	85	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	42	°C	ISO 75/1
Vicat 50°C/h at 9,81N (A)	125	°C	ISO 306
Vicat 50°C/h at 49,05N (B)	68	°C	ISO 306
<b>FLAME RETARDENT PROPERTIES</b>			
GWFI at 2 mm		°C	IEC 60695-2-12
UL94 at 1,6 mm	HB		UL94
<b>ADDITIONAL INFORMATION</b>			
Filler content	45	±2%	ISO 3451
Mould shrinkage (with flow)	1,0-1,3	%	Polykemi
Mould shrinkage (across flow)	1,0-1,3	%	Polykemi
<b>PROCESS INSTRUCTIONS</b>			
Drying time	2-4	h	
Drying temperature	70-80	°C	
Melt temperature	180-230	°C	
Mould temperature		°C	

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Stated values in this datasheet are approximate. The values originate, if nothing else is stated, from standardized test specimens in natural color. All information, recommendations and advice given by Polykemi AB or any of its subsidiaries and affiliates, written or verbal, are according to Polykemi AB's knowledge to the date of this edition, correct and given in good faith. It is the responsibility of the customer to test and evaluate if the material suits the application and the environment in which it is intended to be used. Polykemi AB, its subsidiaries and affiliates can not be held responsible or liable for any loss incurred through incorrect or faulty use of the products. When producing details in flame retardant material, corrosion protected steel is to recommend for the mould. Polykemi AB takes no responsibility for any printing errors.

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