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Preliminary Data Sheed BIOPLAST 800

Properties				
Parameters	Target Value	Unit	Descriptions	Standart
Material Density	2	g/cm ³	EN ISO 1183	r
MFR (160°C, 5 kg)	5.2	g/10 min	EN ISO 1133 (160 °C, 5 kg)	
MFR (190°C, 5 kg)	11	g/10 min	EN ISO 1133 (190 °C, 5 kg)	
Moisture Content	< 0,15	weight %	Biotec test directive based on EN ISO 15512	
Biobased carbon share	> 60	%	ASTM D6866 or ISO 16620-2 (TC)	

Mechanical Properties					
Parameters	Target Value	Unit	Parameters	Target Value	Unit
Strain at strength	2	%	Charpy impact strength average	2	kJ/m ²
Thickness	245	μm	Flexural modulus	7441	MPa
Tear resistance	1501	mN	Flexural stress at break	76	MPa
Tear resistance	153	g	Flexural strain at break	2	%
Tear resistance	1	g/μm	Flexural stress at conventional deflection	6	MPa
Tear resistance	6	KJ/m ²	Flexural strength	77	MPa
Oblique tear	0	%	Flexural strain at flexural strength	2	%
Thickness	245	μm	Tensile modulus	6271	MPa
Tear resistance	1610	mN	Stress at yield	n/a	MPa
Tear resistance	164	g	Strain at yield	n/a	%
Tear resistance	1	g/μm	Stress at break	47	MPa
Tear resistance	7	KJ/m ²	Nominal strain at break	n/a	%
Oblique tear	0	%	Strain at break	2	%
autre	d	autre	Strength	47	MPa
Heat deflection temperature (HDT)	65	°C			

Compostable Certification			
Certification	Target Value	Unit	Standart
OK Compost INDUSTRIAL	275	μm	EN 13432
OK compost HOME	n/a	μm	Certification program of TUV Austria

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Preliminary Data Sheed BIOPLAST 105

Properties				
Parameters	Target Value	Unit	Descriptions	Standart
Material Density	n/a	g/cm ³	EN ISO 1183	r
MFR (160°C, 2.16 kg)		g/10 min	EN ISO 1133 (160 °C, 2.16 kg)	
MFR (190°C, 2.16 kg)	4.1	g/10 min	EN ISO 1133 (190 °C, 2.16 kg)	
Moisture Content	< 0,2	weight %	Biotec test directive based on EN ISO 15512	
Biobased carbon share	67	%	ASTM D6866 or ISO 16620-2 (TC)	

Mechanical Properties					
Parameters	Target Value	Unit	Parameters	Target Value	Unit
Strain at strength	n/a	%	Charpy impact strength average	n/a	kJ/m ²
Thickness	n/a	μm	Flexural modulus	n/a	MPa
Tear resistance	n/a	mN	Flexural stress at break	n/a	MPa
Tear resistance	n/a	g	Flexural strain at break	n/a	%
Tear resistance	n/a	g/μm	Flexural stress at conventional deflection	n/a	MPa
Tear resistance	n/a	KJ/m ²	Flexural strength	n/a	MPa
Oblique tear	n/a	%	Flexural strain at flexural strength	n/a	%
Thickness	n/a	μm	Tensile modulus	n/a	MPa
Tear resistance	n/a	mN	Stress at yield	n/a	MPa
Tear resistance	n/a	g	Strain at yield	n/a	%
Tear resistance	n/a	g/μm	Stress at break	n/a	MPa
Tear resistance	n/a	KJ/m ²	Nominal strain at break	n/a	%
Oblique tear	n/a	%	Strain at break	n/a	%
autre	d	autre	Strength	n/a	MPa
Heat deflection temperature (HDT)	n/a	°C			

Compostable Certification			
Certification	Target Value	Unit	Standart
OK Compost INDUSTRIAL	100	μm	EN 13432
OK compost HOME	n/a	μm	Certification program of TUV Austria

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Preliminary Data Sheed BIOPLAST GS 2189

Properties					
Parameters		Target Value	Unit	Descriptions	Standart
Material Density		1.36	g/cm³	EN ISO 1183	r
MFR (190°C, 2.16 kg)		29	g/10 min	EN ISO 1133 (190 °C, 2.16 kg)	
Moisture Content		< 0,15	weight %	Biotec test directive based on EN ISO 15512	
Biobased carbon share		69	%	ASTM D6866 or ISO 16620-2 (TC)	
Mechanical Properties					
Parameters		Target Value	Unit	Parameters	Target Value Unit
Strain at strength	2	%		Charpy impact strength average	4 kJ/m²
Thickness	260	µm		Flexural modulus	2417 MPa
Tear resistance	5297	mN		Flexural stress at break	n/a MPa
Tear resistance	540	g		Flexural strain at break	n/a %
Tear resistance	2	g/µm		Flexural stress at conventional deflection	62 MPa
Tear resistance	20	KJ/m²		Flexural strength	64 MPa
Oblique tear	0	%		Flexural strain at flexural strength	4 %
Thickness	268	µm		Tensile modulus	2332 MPa
Tear resistance	2723	mN		Stress at yield	41 MPa
Tear resistance	278	g		Strain at yield	2 %
Tear resistance	1	g/µm		Stress at break	31 MPa
Tear resistance	10	KJ/m²		Nominal strain at break	7 %
Oblique tear	0	%		Strain at break	n/a %
autre	d	autre		Strength	41 MPa
Heat deflection temperature (HDT)	53	°C			
Compostable Certification					
Certification		Target Value	Unit	Standart	
OK Compost INDUSTRIAL		418	µm	EN 13432	
OK compost HOME		n/a	µm	Certification program of TUV Austria	

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