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Preliminary Data Sheed BIOPLAST 800

Properties								
Parameters			Target Value	Unit	Descriptions			
Material Density			2	g/cm ³	EN ISO 1183			
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	%
Heat deflection temperature (HDT)			65	°C	Strength		47	MPa
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	
Material Density			n/a	g/cm ³	EN ISO 1183	
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	%
Heat deflection temperature (HDT)	n/a	°C		Strength	n/a	MPa
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	
Material Density			1.36	g/cm ³	EN ISO 1183	
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/m ²
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/m ²	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/m ²	Nominal strain at break	7	%
Oblique tear		0	%	Strain at break	n/a	%
Heat deflection temperature (HDT)		53	°C	Strength	41	MPa
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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