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Preliminary Data Sheed BIOPLAST 800

Properties							
Parameters			Target Value	Unit	Descriptions		
Material Density			6.2	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	%
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 Sheet 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	
Strain	at	strength	n/a		%	
Thickness			n/a		μm	
Tear resistance			n/a		mN	
Tear resistance			n/a		g	
Tear	resistance		n/a		g/μm	
Tear resistance			n/a		KJ/m²	
Oblique	tear		n/a		%	
Thickness			n/a		μm	
Tear resistance			n/a		mN	
Tear resistance			n/a		g	
Tear resistance			n/a		g/μm	
Tear resistance			n/a		KJ/m²	
Oblique tear			n/a		%	
autre			d		autre	
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
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	
Strain at strength			2		%	
Thickness			260		µm	
Tear resistance			5297		mN	
Tear resistance			540		g	
Tear resistance			2		g/µm	
Tear resistance			20		KJ/m²	
Oblique tear			0		%	
Thickness			268		µm	
Tear resistance			2723		mN	
Tear resistance			278		g	
Tear resistance			1		g/µm	
Tear resistance			10		KJ/m²	
Oblique tear			0		%	
autre			d		autre	
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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