

MATERIAL COMPARISON

25.04.2024 - Version 4.1

Table 1: Technical Properties

		TECHNICAL PROPERTIES										
		MFI 190°C/ 2.16 kg (g/10 min)	Flexural Strain (%)	Tensile modulus (GPa)	Tensile strain (%)	HDT-B Heat deflection temperature (°C)	Charpy impact strength (kJ/m ²)	Material Density (g/cm ³)	Shrinkage (%)	Mold Temperature (°C)	Minimum object thickness (recommendation) (mm)	Wood chip size
SULAPAC MATERIALS	Premium	N.A	2.0	5.5	1.2	56	6-7	1.27		20 - 40	2	Large
	Premium Flex 40	N.A	2.2	4.3	1.4	56	8	1.27		20 - 40	2	Large
	Universal	15	1.5	5.0	1.5	55	7-9	1.27	0.1...0.2	20 - 40	0.6 – 1	Small
	Universal Flex 30 HF	12	2.6	3.0	2.9	54	12	1.27	0.3...0.4	20 - 40	0.6 – 1	Small
	Universal Flex 30 LF	2	3.0	2.8	3.3	54	16	1.27	0.3...0.4	20 - 40	0.6 – 1	Small
	Universal Flex 35	7-6	2.6	3.5	2.7	54	14	1.27	0.3	20 - 40	0.6	Small
	Universal Heat 30	5-8	2.9	3.3	2.7	95	8	1.41	0.2	20 - 40	0.6 – 1	Small
	Universal Heat 35	8-13	1.5	5.8	1.3	95	5-7	1.34	0.2	20 - 40	0.6 – 1	Small
	Solid	1-6	1.3	9.0	1.2	130	13-16	1.4	<0.1-0.2	>100	0.5	None
	Luxe	15	2.7	3.5	2	54	15	1.27	0.3...0.4	20 - 40	0.6 – 1	Fine
	Luxe Flex	30	8	2.5	4	53	20	1.27	0.3...0.4	20 - 40	0.6 – 1	None
	Barrier	12	1.1	7	1.3	130-140	8.7	1.49	1.0	60 – 70	0.5 – 1	None
	Flow 1.7	1-4	5	2.3	11	54	34	1.26		-	0.15	Fine
	Flow 1.8	1-4	4	2.1	10	54	34	1.26		-	0.5	Fine

Table 2: Verified Processing Methods

		VERIFIED PROCESSNG METHODS					Recommended Minimum Object Thickness (mm)
		Injection Molding	Extrusion	Thermoforming	3D Printing		
					Granules	Filament	
SULAPAC MATERIALS	Premium	✓					2
	Premium Flex 40	✓					2
	Universal	✓					0,6 - 1
	Universal Flex 30 HF	✓					0,6 - 1
	Universal Flex 30 LF	✓					0,6 - 1
	Universal Flex 35	✓					0,6
	Universal Heat 30	✓			✓		0.6 - 1
	Universal Heat 35	✓					0.6 - 1
	Solid	✓					0,5
	Luxe	✓					0.6 - 1
	Luxe Flex	✓					0.6 - 1
	Barrier	✓					0,5 - 1*
	Flow 1.7		✓	✓	✓	✓	0,15
	Flow 1.8		✓				0,5

Table 3: Verified Applications

		VERIFIED APPLICATIONS							
		Cosmetic Jars and Caps	Make-up	Supplement Packaging	Luxury Packaging	Kitchen Ware	Straw	Cutlery	Point of Sale Displays
SULAPAC MATERIALS	Premium	✓		✓	✓				
	Premium Flex 40	✓			✓				
	Universal	✓	✓	✓	✓			✓	
	Universal Flex 30 HF							✓	
	Universal Flex 30 LF							✓	
	Universal Flex 35	✓		✓	✓				
	Universal Heat 30							✓	
	Universal Heat 35							✓	
	Solid	✓	✓		✓	✓			
	Luxe	✓	✓		✓				
	Luxe Flex	✓	✓		✓				
	Barrier	✓*		✓*					
	Flow 1.7		✓				✓		✓
	Flow 1.8		✓						

Table 4: Key Sustainability Features

		KEY SUSTAINABILITY FEATURES					
		No Permanent Microplastics	Safe For People and The Planet	Sustainably Sourced	Mass Produicable	Industrially Compostable	Bio-Based %
SULAPAC MATERIALS	Premium	✓	✓	✓	✓	✓	100 %
	Premium Flex 40	✓	✓	✓	✓	✓	87 %
	Universal	✓	✓	✓	✓	✓	100 %
	Universal Flex 30 HF	✓	✓	✓	✓	✓	79 %
	Universal Flex 30 LF	✓	✓	✓	✓	✓	78 %
	Universal Flex 35	✓	✓	✓	✓	✓	87 %
	Universal Heat 30	✓	✓	✓	✓	✓	70 %
	Universal Heat 35	✓	✓	✓	✓	✓	85 %
	Solid	✓	✓	✓	✓	✓	100 %
	Luxe	✓	✓	✓	✓	✓	87 %
	Luxe Flex	✓	✓	✓	✓	✓	86 %
	Barrier	✓	✓	✓	✓	✓	98 %
	Flow 1.7	✓	✓	✓	✓	✓	72 %
	Flow 1.8	✓	✓	✓	✓	✓	72 %

Table 5: Material Certificates

MATERIAL CERTIFICATES								
	Industrial Compostability				Bio-Based %	Non-GMO		Wood
	Self-Declaration	BPI ASTM D6400	Seedling EN 13432 / ASTM D6400	OK Compost Industrial EN 13432	BioPreferred ASTM D6866	Self-Declaration	Non-GMO Project Verified	FSC Mix INS-COC-100087
SULAPAC MATERIALS	Premium	✓			100 %		✓	✓**
	Premium Flex 40		✓		87 %	✓		✓**
	Universal		✓		100 %		✓	
	Universal Flex 30 HF		✓	✓	79 %	✓		
	Universal Flex 30 LF			✓	78 %			
	Universal Flex 35		✓		87 %		✓	
	Universal Heat 30		✓		70 %	✓*		
	Universal Heat 35		✓		85 %	✓*		
	Solid		✓		100 %	✓		
	Luxe	✓			87 %	✓*		
	Luxe Flex			✓	86 %	✓*		
	Barrier		✓		98 %	✓		
	Flow 1.7		✓	✓		72 %		✓
Flow 1.8		✓	✓		72 %		✓	✓**

* Non-GMO version available upon request

** Available as FSC upon request