SULAPAC

# SULAPAC MATERIAL COMPARISON

Version date: 31.01.2022

Version: 1.2

## Table 1: Material Properties

| | SULAPAC MATERIAL | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Premium | Premium Flex 40 | Universal | Universal Flex 30 | | Universal Flex 35 | Barrier | Flow |
| | | | | High Flow | Low Flow | | | |
| **Technology** (Injection Molding / Extrusion) | IM | IM | IM | IM | | IM | IM | EX |
| **Bio-based %** | 100% | 87% | 100% | 79% | 78% | 94% | 98% | 72% |
| **MFI** (190°C/2.16 kg) | N.A | N.A | 15 g/10 min | 12 g/10 min | 2 g/10 min | 8 g/10 min | 12 g/10 min | 1 g/10 min |
| **Flexural Strain** (%) | 2,0% | 2,2% | 1,5% | 2,6% | 3,0% | 2,6% | 1,14% | - |
| **Tensile modulus** (GPa) | 5.5 | 4.3 | 5.0 | 3.0 | 2.8 | 3.5 | 7 | 2.3 |
| **Tensile strain at break** (%) | 1.2 | 1.4 | 1.5 | 2.9 | 3.3 | 2.7 | 1.3 | 9 |
| **Wood chip size** | Large | Large | Small | Small | | Small | None | Fine |
| **Object thickness recommendation, min.** | 2mm | 2mm | 0,6 – 1mm | 0,6 – 1mm | | 0,6mm | 0,5mm | 0,3mm |
| **Industrially compostable** | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| **Food contact approved/conditions** | Yes* | Yes* | Yes* | Yes* | | Yes* | Yes* | Yes* |
| **HDT** (Heat deflection temperature) | 56°C | 56°C | 55°C | - | | 54°C | - | - |

## Table 2: Suitability for Applications examples

| | SULAPAC MATERIAL | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Premium | Premium Flex 40 | Universal | Universal Flex 30 | | Universal Flex 35 | Barrier | Flow |
| | | | | High Flow | Low Flow | | | |
| **Cosmetics skincare packaging** | X | X | X | | | X | X | |
| **Color cosmetics** | | | | | | | | X |
| **Supplement packaging** | X | | X | | | X | X | |
| **Luxury packaging** | X | X | X | | | X | | |
| **Straw** | | | | | | | | X |
| **Cutlery** | | | X | X | | | | |
| **Object thickness recommendation, min** | 2mm | 2mm | 0,6 - 1mm | 0,6 – 1mm | | 0,6mm | 0,5mm | 0,3mm |



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## Table 3: Material Certificates

| | | SULAPAC MATERIAL | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Premium | Premium Flex 40 | Universal | Universal Flex 30 | | Universal Flex 35 | Barrier | Flow v1.7 |
| | | | | | High Flow | Low Flow | | | |
| INDUSTRIAL COMPOSTABILITY | **SEEDLING** EN13432 / ASTM D6400 | | | | | ✓ EN13432 ASTM D6400 | | | |
| | **BPI** ASTM D6400 | ✓ | PENDING Q2/2022 | ✓ APPROVED Q1/2022 | ✓ | | ✓ APPROVED Q1/2022 | PENDING Q2/2022 | ✓ APPROVED Q1/2022 |
| BIOBASED CARBON PERCENTAGE | **BIO PREFERRED** ASTM D6866 | 100% | 87% | 100% | 79% | 78% | 94% | 98% | 72% |
| WOOD | **FSC Mix** INS-COC-100087 | ✓ | ✓ | | | | | | |

***Please contact us for further details.***



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