



**Plastic
Selection
Group, Inc.**

YOUR PARTNER IN DEVELOPING MATERIAL ALTERNATIVES

Kostrate® Sizzle

| PROPERTY | Test Method/Cert | SIZZLE | SIZZLE HHLM | SIZZLE HF | SIZZLE 6 |
|---------------------------------------|---------------------|-------------------------|-------------------------|--------------|-------------------------|
| Physical | | | | | |
| Specific Gravity | ASTM D 792 | 1.05 | 1.05 | 1.05 | 1.05 |
| Melt Flow (200°C/5kg) | ASTM D 1238 | 12.0 g/ 10 min | 3.5 g/ 10 min | 18.0 | 6.0 |
| Food Contact Acceptable | NSF/ ANSI 51 | Compliant | Compliant | Compliant | Compliant |
| Food Contact Acceptable | FDA 21 CFR 177.1640 | Compliant | Compliant | Compliant | Compliant |
| Mechanical | | | | | |
| Tensile Strength @ Break | ASTM D 638 | 31 MPa (6,000 psi) | | | |
| Tensile Strength @ Yield | ASTM D 638 | | 47 MPa (6,000 psi) | TBD | 6,500 psi |
| Flex Modulus | ASTM D 790 | 2275 MPa (450,000 psi) | 3309 MPa (480,000 psi) | TBD | 460,000 psi |
| Flex Strength Yield | ASTM D 790 | 66 MPa (8,400 psi) | 12,000 | TBD | 9,600 psi |
| Elongation | ASTM D 790 | 2% | 2% | 2% | 2% |
| Tensile Modulus | ASTM D 638 | 435,000 psi | 450,000 psi | TBD | 450,000 psi |
| Izod Impact | ASTM D 256 | 0.4 ft-lb/in (21.4 J/M) | 0.4 ft-lb/in (21.4 J/M) | 0.3 ft-lb/in | 0.4 ft-lb/in (21.4 JM) |
| Thermal | | | | | |
| Deflection Temp [@ .0455 MPa (66psi)] | ASTM D 648 | 184° F (84.4° C) | 197° F (91° C) | 193° F | 192° F |
| Vicat Softening Temp. | ASTM D 1525 | 210° F (99° C) | 222° F (106° C) | 217° F | 215° F |
| Optical Properties | | | | | |
| Haze | ASTM D 1003 | 0.5% | 0.5% | TBD | TBD |
| Light Transmission | % | 93% | 93% | TBD | TBD |
| Recommended Processing | | | | | |
| Rear Temperature | | 440-470° F (226-241° C) | 430-470° F (226-241° C) | TBD | 430-470° F (226-241° C) |
| Middle Temperature | | 450-480° F (232-246° C) | 440-480° F (232-246° C) | TBD | 440-480° F (232-246° C) |
| Front Temperature | | 460-490° F (238-255° C) | 450-490° F (238-255° C) | TBD | 450-490° F (238-255° C) |
| Nozzle/Die Head Temp. | | 440-490° F (226-255° C) | 430-490° F (226-255° C) | TBD | 430-490° F (226-255° C) |
| Mold Temperature | | 80-100° F (27-38° C) | 80-100° F (204-221° C) | TBD | 80-100° F (204-221° C) |
| Processing (Melt) Temp | | 450-490° F (204-221° C) | 440-490° F (204-221° C) | TBD | 440-490° F (204-221° C) |

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