

**Product Data Sheet**  
**Kostrate® Sizzle**  
*Injection Molding*

**Product Description:** *Our Sizzle™ product line is a unique homopolymer with additives polymerized for a lower co-efficient of friction and a plasticizer for better ductility inclusive of a GPPS. It is used to displace those in the brittle clear category, such as GPPS, Acrylic, SMMA, and SAN when the customer is looking for a material with additional toughness, easier release and surface lubricity.*

**Typical Material Properties**

General Properties	Test Method / Cert.	Typical Values
Specific Gravity	ASTM D 792	1.05
Mold Shrinkage	ASTM D 955	.003-.006 in/in
Melt Flow (200°C/5 kg.)	ASTM D 1238	12.0 g/10 min
Food Contact Acceptable	FDA 21 CFR 177.1640 NSF/ANSI 51	Compliant Compliant

**Mechanical Properties**

Tensile Strength @ Break	ASTM D 638	31 MPa (6,000 psi)
Elongation	ASTM D 638	2 %
Tensile Modulus	ASTM D 638	2620 MPa (425,000 psi)
Flexural Modulus	ASTM D 790	2275 MPa (450,000 psi)
Flexural Strength @ Yield	ASTM D 790	66 MPa (8,400 psi)
Izod Impact (1/8" bar @ 73°F)	ASTM D 265	0.4 ft-lb/in (21.4 J/m)

**Thermal Properties**

Deflection Temp. [@ 0.455 MPa (66psi)]	ASTM D 648	180°F (82°C)
Vicat Softening Temp.	ASTM D 1525	206°F (97°C)

*Additional: Dishwasher safe, prints and sonic welds.*

**Optical Properties**

Haze	ASTM D 1003	0.5%
Light Transmittance	ASTM D 1003	93%

**Recommended Processing**

Drying Temperature	No Drying required (1-3 hours at 150-190 °F in high humidity or damp places)	
Rear Temperature	440-470 °F (226-241°C)	
Middle Temperature	450-480 °F (232-246°C)	
Front Temperature	460-490 °F (238-255°C)	
Nozzle/Die Head Temperature	440-490 °F (226-255°C)	
Mold Temperature	80-100 °F (27-38°C)	
Processing (Melt) Temp	450-490 °F (204-221°C)	

First purge with GPPS at a high Temperature, without degrading the GPPS.

The information provided above is based upon typical values. Typical values are intended only as guides. Each customer is responsible for determining whether products and information in this document are appropriate for the customer's use. **NO GUARANTEES OR WARRANTIES ARE EXPRESSED OR IMPLIED.**