

Technical Data Sheet

**Softflex 7088**

Thermoplastic Elastomer Alloy
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Chemical Resistant • Good Colorability
Uses	• Overmolding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (Natural)	0.890 g/cm ³	0.890 g/cm ³	ASTM D792
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹			ASTM D412
Break, 73°F (23°C), 0.125 in (3.18 mm)	1530 psi	10.5 MPa	
Tensile Elongation ¹			ASTM D412
Break, 73°F (23°C), 0.125 in (3.18 mm)	800 %	800 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	70	70	ASTM D2240

Additional Information

Processing Information: Injection Molding (preferable standard 2-component injection molding machine to get adhesion to substrate)

Purging: Purge thoroughly before and after use of this product (e.g. polypropylene with MFI between 0.5 - 2.5)

Drying Time: Material is not hygroscopic and drying is only necessary if material is stored under moisture.

Shrinkage Properties: This material is anisotropic. The shrinkage properties are higher in the flow direction, and the shrinkage in the cross-flow direction is less. Typical shrinkage properties values are between 0.8 - 2.2%

Rheological Properties: This material is shear dependent. Viscosity will decrease at higher shear rates, and should be considered during injection molding design and setup of processing conditions.

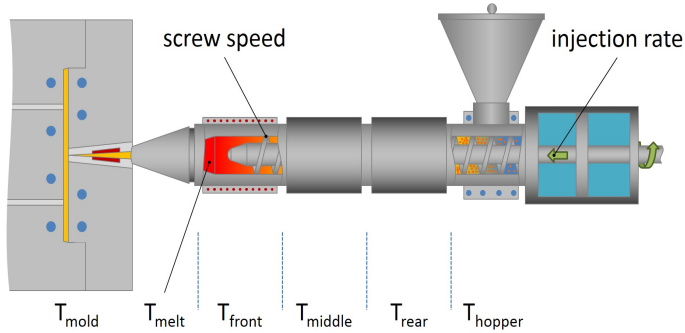
FDA Compliance: Softflex 7088 is based on Styrenic-Ethylene/Bthylene block-copolymers as described by FDA, article 21. A valid Code of Federal Regulations (CFR) is described in paragraph 177.1810 and/or paragraph 176.170, categories I, II, IV-B, VI, VII-B, VIII in panel 1.

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	320 to 365 °F	160 to 185 °C
Front Temperature	356 to 405 °F	180 to 207 °C
Nozzle Temperature	405 to 450 °F	207 to 232 °C
Mold Temperature	85 to 150 °F	29 to 66 °C

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Notes

¹ 20 in/min (510 mm/min)

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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