

Technical Data Sheet

Softflex 0954 1402 BLACK



Thermoplastic Elastomer

Product Description

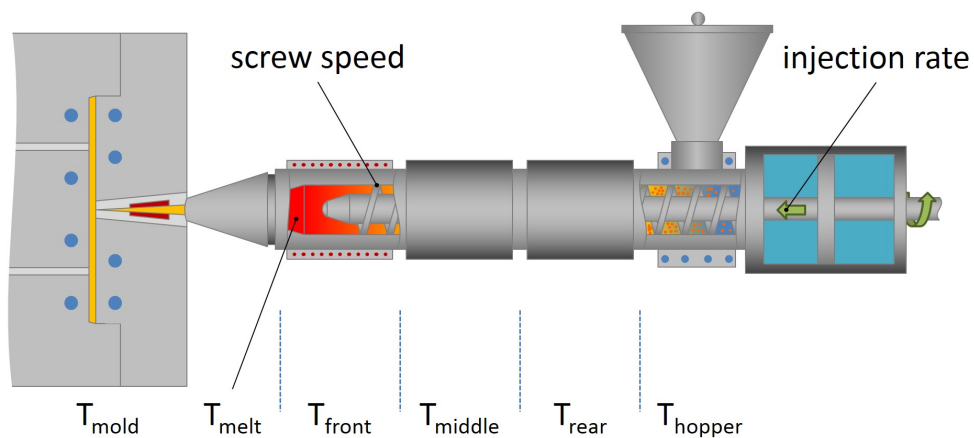
Softflex 0954 1402 BLACK is a Thermoplastic Elastomer material and is typically used in Coating, Injection Molding applications.

Regulatory Status

For regulatory compliance information, see Softflex 0954 1402 BLACK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Coating; Injection Molding
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	21	g/10 min	ASTM D1238
(235 °C/1.0 kg, Procedure A)	19	g/10 min	ASTM D1238
Density - Specific Gravity	1.09	g/cm ³	ASTM D792
Mechanical			
Tensile Stress at 100%	3.27	MPa	ASTM D412
Tensile Stress at 300%	4.9	MPa	ASTM D412
Tensile Stress at 50%	2.57	MPa	ASTM D412
Tensile Set, (100%)	7	%	ASTM D412
Tensile Strength at Yield, (510 mm/min)	9.54	MPa	ASTM D412
Tensile Elongation at Break	810	%	ASTM D412
Tear Strength	45.5	kN/m	ASTM D624
Impact			
Gardner Impact, (-30 °C)	>36.2	J	ASTM D5420
Hardness			
Durometer Hardness			
(Shore A)	68 to 78		ASTM D2240
(Shore A, 10 sec)	64 to 74		ASTM D2240
Additional Information			
Compression Set			
(100 °C, 22 hr, Method B)	96	%	ASTM D395
(23 °C, 22 hr, Method B)	24	%	ASTM D395
(70 °C, 22 hr, Method B)	78	%	ASTM D395
Taber Abrasion Resistance, (H-22 Wheel, 1000 g, 1000 Cycles)	238	mg	ASTM D3389



Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	54 to 60	°C
Nozzle Temperature	199 to 216	°C
Screw Speed	20 to 40	rpm
Processing (Melt) Temp	193 to 210	°C
Front Temperature	210 to 221	°C
Holding Pressure	27.6 to 31.0	MPa
Suggested Shot Size	40 to 80	%
Middle Temperature	171 to 193	°C
Rear Temperature	160 to 182	°C
Back Pressure	0.517 to 1.03	MPa
Mold Temperature	27 to 49	°C
Injection Pressure	34.5 to 41.4	MPa

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.

Company Information

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

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.