

Softflex 0809

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

General

Forms

• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.925	0.923 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (235°C/1.0 Kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Taber Abrasion Resistance 1000 Cycles, 1000 G, H-22 Wheel	1.18 mg	1.18 mg	ASTM D3389
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set (100% Strain)	5 %	5 %	ASTM D412
Tensile Stress			ASTM D412
50% Strain	87.0 psi	0.600 MPa	
100% Strain	127 psi	0.876 MPa	
300% Strain	258 psi	1.78 MPa	
Tensile Strength ² (Yield)	659 psi	4.54 MPa	ASTM D412
Tensile Elongation (Break)	610 %	610 %	ASTM D412
Compression Set			ASTM D395B
73°F (23°C), 22 Hr	20 %	20 %	
158°F (70°C), 22 Hr	76 %	76 %	
212°F (100°C), 22 Hr	82 %	82 %	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Impact (-22°F (-30°C))	1210 in·lb	137 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	36	36	
Shore A, 10 Sec	31	31	

Notes

¹ Procedure A

² 20 in/min (510 mm/min)

Notes

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

