

Softflex 8103

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

General			
Uses	• Overmolding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.12	1.12 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (235°C/1.0 Kg)	42 g/10 min	42 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	4210 psi	29.0 MPa	ASTM D638
Flexural Modulus	3550 psi	24.5 MPa	ASTM D790
Taber Abrasion Resistance 1000 Cycles, 1000 G, H-22 Wheel	146 mg	146 mg	ASTM D3389
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set (100% Strain)	108 %	108 %	ASTM D412
Tensile Stress			ASTM D412
50% Strain	3.51 psi	0.0242 MPa	
100% Strain	4.28 psi	0.0295 MPa	
300% Strain	6.22 psi	0.0429 MPa	
Tensile Elongation (Break)	970 %	970 %	ASTM D412
Tear Strength	364 lbf/in	63.7 kN/m	ASTM D624
Compression Set			ASTM D395B
73°F (23°C), 22 Hr	6.0 %	6.0 %	
158°F (70°C), 22 Hr	75 %	75 %	
212°F (100°C), 22 Hr	92 %	92 %	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Impact	> 320 in·lb	> 36.2 J	ASTM D3029
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	74 to 84	74 to 84	
Shore A, 10 Sec	70 to 80	70 to 80	
Additional Information	Nominal Value (English)	Nominal Value (SI)	
Overmold Bonding	ABS, PC, ABS/PC, PPO	ABS, PC, ABS/PC, PPO	

Notes

¹ Procedure A

Notes

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

