Technical Data Sheet

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/cm³	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			ASTM D3389
1000 Cycles, 1000 G, H-22 Wheel	146 mg	146 mg	
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.