

Softflex® 2701

Thermoplastic Elastomer

Network Polymers, Inc.

Message:

Softflex® 2701 is a Thermoplastic Elastomer (TPE) product. It is available in North America. Typical application: Engineering/Industrial Parts.

General Information			
UL YellowCard	E51193-101898746		
Uses	Overmolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.992	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (235°C/1.0 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.80	%	
Across Flow : 3.18 mm	0.60	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	48		
Shore A, 10 sec	45 to 55		
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-22 Wheel)	58.9	mg	ASTM D3389
Films	Nominal Value	Unit	Test Method
Peel Strength - 90°	3.6	kN/m	ASTM D429
Overmold Bonding	ABS, PC, ABS/PC, PPO		
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (100% Strain)	4	%	ASTM D412
Tensile Stress			ASTM D412
50% Strain	1.50	MPa	
100% Strain	1.99	MPa	
300% Strain	3.36	MPa	
Tensile Strength ² (Yield)	11.3	MPa	ASTM D412
Tensile Elongation (Break)	870	%	ASTM D412
Tear Strength	52.2	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	22	%	
70°C, 22 hr	73	%	
100°C, 22 hr	89	%	
Impact	Nominal Value	Unit	Test Method
Gardner Impact (-30°C)	27.0	J	ASTM D5420

NOTE

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| 1. | Procedure A |
| 2. | 510 mm/min |

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