

Technical Data Sheet

Softflex TPU 2910 1001 UV

Thermoplastic Elastomer Alloy

Product Description

Softflex TPU 2910 1001 UV is a Thermoplastic Elastomer Alloy material and is typically used in Coextrusion applications.

Processing Method	Coextrusion
Forms	Pellets
Appearance	Colors Available
Application	Automotive Applications; Marine Applications; Sporting Goods

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (200 °C/5.0 kg, Procedure A)	0.30	g/10 min	0.30	g/10 min	ASTM D1238
Density - Specific Gravity	1.03	g/cm ³	1.03	g/cm ³	ASTM D792
Mechanical					
Tensile Stress at 100%			1.99	MPa	ASTM D412
Tensile Stress at 300%			3.36	MPa	ASTM D412
Tensile Stress at 50%			1.5	MPa	ASTM D412
Tensile Set, (100%)	4	%	4	%	ASTM D412
Tensile Strength at Yield, (510 mm/min)			11.3	MPa	ASTM D412
Tensile Elongation at Break	870	%	870	%	ASTM D412
Tear Strength			44.8	kN/m	ASTM D624
Impact					
Gardner Impact, (23 °C)			31.6	J	ASTM D5420
Hardness					
Durometer Hardness					
(Shore A)	91		91		ASTM D2240
(Shore A, 10 sec)	85		85		ASTM D2240
Additional Information					
Compression Set					
(100 °C, 22 hr, Method B)	98	%	98	%	ASTM D395
(23 °C, 22 hr, Method B)	39	%	39	%	ASTM D395
(70 °C, 22 hr, Method B)	96	%	96	%	ASTM D395
Peel Strength 90°	6	lbf/in			ASTM D429
Taber Abrasion Resistance, (H-22 Wheel, 1000 g, 1000 Cycles)			241	mg	ASTM D3389