

## Teknor Apex TEKRON® 4300-D90B Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

**Material Notes:**

Information provided by Teknor Apex Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-TEKRON-4300-D90B-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-TEKRON-4300-D90B-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	+/- 0.02; ASTM D792
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	15 second delay. +/-3; ASTM D2240
Tensile Strength at Break	43.6 MPa @Temperature -40.0 °C	6320 psi @Temperature -40.0 °F	
Tensile Strength, Ultimate	2.96 MPa @Temperature 85.0 °C	430 psi @Temperature 185 °F	
Tensile Strength, Yield	7.58 MPa	1100 psi	ASTM D412
Elongation at Break	535 %	535 %	ASTM D412
	780 % @Temperature 85.0 °C	780 % @Temperature 185 °F	
	1360 % @Temperature -40.0 °C	1360 % @Temperature -40.0 °F	
100% Modulus	0.00555 GPa	0.805 ksi	ASTM D412
300% Modulus	0.00683 GPa	0.990 ksi	ASTM D412
Flexural Modulus	0.0965 GPa	14.0 ksi	ASTM D790
	0.0379 GPa @Temperature 85.0 °C	5.50 ksi @Temperature 185 °F	ASTM D790

Mechanical Properties	0.452 GPa Metric	67.0 ksi English	Comments ASTM D750
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tear Strength	56.1 kN/m	320 pli	Die C; ASTM D1004

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746
Glass Transition Temp, Tg	-52.0 °C	-61.6 °F	
Flame Spread	25.4 mm/min	1.00 in/min	Pass: Burn Rate- Max 100; FMVSS 302

Descriptive Properties	Value	Comments
Fogging	88, 6 hours at 95°C. (SAE-J1756)	

## Contact Songhan Plastic Technology Co.,Ltd.

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