

Teknor Apex TEKRON® 4300LM-P96-1 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-4300LM-P96-1-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	0.014 cm/cm	0.014 in/in	24 hours
	0.016 cm/cm	0.016 in/in	24 hours + 30 min at 93°C
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	24 hours
	0.016 cm/cm	0.016 in/in	24 hours + 30 min. at 93°C
Melt Flow	9.6 g/10 min	9.6 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	10 second delay. +/- 3; ASTM D2240
Tensile Strength, Yield	13.52 MPa	1961 psi	92% Retention; Air Over Aged 1000 hrs at 110°C
	14.69 MPa	2131 psi	ASTM D412
Elongation at Break	19.402 %	19.402 %	89% Retention; Air Over Aged 1000 hrs at 110°C
	21.8 %	21.8 %	ASTM D412
Flexural Modulus	0.31459 GPa	45.627 ksi	ASTM D790
Tear Strength	64.79 kN/m	369.6 pli	84% Retention, Air Over Aged 1000 hrs at 110°C
	77.1 kN/m	440 pli	Die C; ASTM D1004

Thermal Properties	Metric	English	Comments
CTE, linear	147 µm/m-°C	81.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	132 µm/m-°C	73.3 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	
Deflection Temperature at 1.8 MPa (264 psi)	39.0 °C	102 °F	
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	ASTM D746
Flame Spread	20.8 mm/min	0.820 in/min	Pass: Burn Rate- Max 100; FMVSS 302

Descriptive Properties	Value	Comments
Fogging	92, 3 hours at 100°C, cooling plate 21°C, value after 1 hour. (SAE-J1756)	
	92, 3 hours at 100°C, cooling plate 21°C, value after 16 hour. (SAE-J1756)	

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