

Teknor Apex TEKRON® 4300-D88A 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-D88A-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	+/- 0.02; ASTM D792
Melt Density	0.785 g/cc	0.0284 lb/in ³	
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	at 80°C for 30 min.
	0.0090 cm/cm	0.0090 in/in	
	0.012 cm/cm	0.012 in/in	at 93°C for 30 min.
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	at 80°C for 30 min.
	0.010 cm/cm	0.010 in/in	
	0.013 cm/cm	0.013 in/in	at 93°C for 30 min.
Melt Flow	12 g/10 min	12 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	33	33	10 second delay. +/- 3; ASTM D2240
Tensile Strength, Yield	7.933 MPa	1151 psi	94% Retention; Air Over Aged 1000 hrs at 90°C
	8.102 MPa	1175 psi	96% Retention; Air Over Aged 400 hrs at 107°C
	8.439 MPa	1224 psi	ASTM D412
	8.827 MPa	1280 psi	104.6% Retention; Air Over Aged 1008 hrs at 100°C, Perpendicular
	9.114 MPa	1322 psi	108% Retention; Air Over Aged 1008 hrs at 100°C, Parallel
Elongation at Break	427.5 %	427.5 %	75% Retention; Air Over Aged 400 hrs at 107°C
	438.9 %	438.9 %	77% Retention; Air Over Aged 1000 hrs at 90°C

Mechanical Properties	467.97 % Metric	467.97 % English	82.1% Retention; Air Over Aged 1008 hrs at 100 °C, Perpendicular
	526.68 %	526.68 %	92.4% Retention; Air Over Aged 1008 hrs at 100°C, Parallel
	570 %	570 %	ASTM D412
Flexural Modulus	0.138 GPa	20.0 ksi	ASTM D790
Tear Strength	61.4 kN/m	350 pli	Die C; ASTM D1004

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.586 J/g-°C	0.6181 BTU/lb-°F	
Thermal Conductivity	0.159 W/m-K @Temperature 205 °C	1.10 BTU-in/hr-ft²-°F @Temperature 401 °F	
Melting Point	125 °C	257 °F	No Flow Temp
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746
Flame Spread	25.4 mm/min	1.00 in/min	Pass: Burn Rate- Max 100; FMVSS 302

Descriptive Properties	Value	Comments
Fogging	72, 6 hours at 95°C. (SAE-J1756)	
Weight Change	-0.5%; Air Over Aged 400 hrs at 107°C	
	-0.7%; Air Over Aged 1000 hrs at 90°C	

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