

Teknor Apex TEKRON® 4300LM-P88-1 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-P88-1-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	0.016 cm/cm	0.016 in/in	24 hours
	0.019 cm/cm	0.019 in/in	24 hours + 30 min at 93°C
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	24 hours
	0.016 cm/cm	0.016 in/in	24 hours + 30 min. at 93°C
Melt Flow	7.08 g/10 min @Load 2.16 kg, Temperature 230 °C	7.08 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	15 second delay. +/-3; ASTM D2240
Tensile Strength, Yield	8.508 MPa	1234 psi	ASTM D412
Elongation at Break	630 %	630 %	ASTM D412
Elongation at Yield	29 %	29 %	ASTM D412
100% Modulus	0.00614 GPa	0.890 ksi	ASTM D412
300% Modulus	0.00731 GPa	1.06 ksi	ASTM D412
Flexural Modulus	0.138 GPa	20.0 ksi	ASTM D790
Tear Strength	65.0 kN/m	371 pli	Die C; ASTM D1004

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

Brittleness Temperature Thermal Properties	≤ -65.0 °C Metric	≤ -85.0 °F English	ASTM D746 Comments
Flame Spread	50.8 mm/min	2.00 in/min	Pass: Burn Rate- Max 100; FMVSS 302

Descriptive Properties	Value	Comments
Fogging	90, 3 hours at 100°C, cooling plate 21°C, value after 1 hour. (SAE-J1756)	

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