Edgetek™ ET5800-800x

Thermoplastic Elastomer

Key Characteristics

Product Description		
An elastomeric, chemically blown foam system comprised of two base materials (ET5800-8004 White Small and ET5800-8005 White Large) to be combined in approximately a 1:1 ratio to achieve a desired final foam density. Both components, as well as the final product, are considered non-toxic.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	• North America
Features	• Foamable	
Uses	• Footwear	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.130	0.130	ASTM D792
Molding Shrinkage - Flow	4.0E-3 in/in	0.40 %	Internal Method
Molding Shrinkage - Across Flow	0.40 %	0.40 %	Internal Method
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength	376 psi	2.59 MPa	Internal Method
Tensile Elongation (Break)	> 320 %	> 320 %	Internal Method
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength	51.5 lbf/in	9.02 kN/m	ASTM D624
Tear Strength (Split)	10 lbf/in	1.8 kN/m	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	113 to 131 °F	45 to 55 °C
Drying Time	> 0.50 hr	> 0.50 hr
Suggested Max Moisture	< 0.030 %	< 0.030 %
Rear Temperature	190 to 201 °F	88 to 94 °C
Middle Temperature	198 to 205 °F	92 to 96 °C
Front Temperature	199 to 208 °F	93 to 98 °C
Nozzle Temperature	203 to 212 °F	95 to 100 °C

Notes

[1] Typical values are not to be construed as specifications.