



Datasheet

High Performance Polyamide (Nylon) Foams

Zotek NSA 3

ENGLISH

ZOTEK® N B50 is a closed cell, cross-linked polyamide-6 foam manufactured using a unique production process. Available in sheet form, it can be fabricated by a variety of techniques and thermoformed into shapes.

Property	Test Method	Units	Typical Value
Density	ISO 845	kg m ³	52
Cell Size	Internal	mm	0.25
Max. operating Temp/	Internal	°C	+205 max
Compression stress-strain characteristics			
25% compression	ISO 7214	kPa	190
50% compression	(1 st compression)	kPa	280
Tensile Strength	ISO 1798	kPa	1300
Elongation		%	70
Compression set			
(22hrs @ 25% compression, 23°C, ½ hr recovery)	ISO 1856 25 mm cell-cell	% set	14
22hrs @ 25% compression, 23°C, 24hrs recovery)	25mm cell-cell	% set	12
Flammability Automotive	FMVSS.302 Burn rate <100 mm/min and thicker		Pass at 4mm
Thermal Conductivity			
Mean temperature of 0°C	ISO 8301	W m ⁻¹ K ⁻¹	0.0360
Mean temperature of 25°C		W m ⁻¹ K ⁻¹	0.0381
Mean temperature of 50°C		W m ⁻¹ K ⁻¹	0.0405
Mean temperature of 80°C		W m ⁻¹ K ⁻¹	0.0420
Mean temperature of 130°C		W m ⁻¹ K ⁻¹	0.0463
Mean temperature of 170°C		W m ⁻¹ K ⁻¹	0.0512
Equilibrium moisture content	ISO 760	Weight %	2.4