

Datasheet

Durethan B40SK 000000

PA 6, non-reinforced, injection molding

ISO Shortname: ISO 16396-PA 6,,GR,S22-030

Property	Test Condition	Unit	Standard	guide value ¹	
				dry as molded	conditioned
Mechanical properties (23 °C/50 % r. h.)					
Tensile modulus	1 mm/min	lb/in ²	ASTM D 638	450000	145000
Tensile stress at yield	-	lb/in ²	ASTM D 638	12300	5800
Tensile elongation at yield	-	%	ASTM D 638	4.0	25
Tensile elongation at break	-	%	ASTM D 638	> 50	> 50
Tensile stress at break	-	lb/in ²	ASTM D 638	8000	8000
Izod notched impact strength	73 °F, 0.125 in	ft-lb/in	ASTM D 256	1.3	18
Flexural modulus	-	lb/in ²	ASTM D 790	392000	102000
Flexural stress at 5 % strain	-	lb/in ²	ASTM D 790	16700	5080
Thermal properties					
Deflection temperature under load, Unannealed	66 psi; 0.157 in	°F	ASTM D 648	356	
Deflection temperature under load, Unannealed	264 psi; 0.157 in	°F	ASTM D 648	140	
Other properties (23 °C)					
Density		lb/in ³	ASTM D 792	0.041	
Specific gravity		-	ASTM D 792	1.14	

Notes

¹ Typical properties: these are not to be construed as specifications

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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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