

Datasheet

Durethan BC30 000000

PA 6, non-reinforced, injection molding, improved impact strength

ISO Shortname: ISO 16396-PA 6-I,,GR,S14-030

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/in²	ASTM D 638	406000	174000
Tensile stress at yield	-	lb/in²	ASTM D 638	9400	5800
Tensile elongation at yield	-	%	ASTM D 638	4.0	20
Tensile elongation at break	-	%	ASTM D 638	50	> 50
Tensile stress at break	-	lb/in²	ASTM D 638	10200	8000
Izod notched impact strength	73 °F, 0.125 in	ft-lb/in	ASTM D 256	1.7	18
Izod notched impact strength	-40 °F; 0.125 in	ft-lb/in	ASTM D 256	1.5	1.5
Flexural modulus	-	lb/in²	ASTM D 790	319000	116000
Flexural stress at 5 % strain	-	lb/in²	ASTM D 790	11600	3600
Thermal properties					
Deflection temperature under load, Unannealed	66 psi; 0.157 in	°F	ASTM D 648	329	
Deflection temperature under load, Unannealed	264 psi; 0.157 in	°F	ASTM D 648	149	
Other properties (23 °C)					
Density		lb/in³	ASTM D 792	0.04	
Specific gravity		-	ASTM D 792	1.1	

Notes

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

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