

SABIC Innovative Plastics LNP THERMOCOMP SH0430AC_BK1D466 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

4.3 specific gravity nylon 12, clean compound system

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-SH0430ACBK1D466-PA12.php

Physical Properties	Metric	English	Comments
Density	4.27 g/cc	0.154 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0300 %	0.0300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0081 - 0.0101 cm/cm	0.0081 - 0.0101 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0087 - 0.0107 cm/cm	0.0087 - 0.0107 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	5 mm/min; ISO 527
	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	5 mm/min; ISO 527
	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	3.2 %	3.2 %	Flexural Strain, break, 2 mm/min; ISO 178
	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.72 GPa	685 ksi	1 mm/min; ISO 527
	4.80 GPa	696 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	67.0 MPa	9720 psi	1.3 mm/min, 50 mm span; ASTM D790
	69.0 MPa	10000 psi	2 mm/min; ISO 178

Elemental Modulus Mechanical Properties	4.25 GPa Metric	616 ksi English	2 mm/min; ISO 178 Comments
	4.32 GPa	627 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.81 J/cm	9.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.5 - 75.5 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	40.8 - 41.9 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	>= 66.8 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	>= 37.1 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Å°C	207 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	101 Å°C @Thickness 3.20 mm	214 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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