

## SABIC Innovative Plastics LNP THERMOCOMP DF005 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* Thermocomp\* DF005 is a compound based on Polycarbonate containing 25% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF005-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF005-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	107 MPa	15500 psi	5 mm/min; ISO 527
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	109 MPa	15800 psi	Type I, 5 mm/min; ASTM D638
	109 MPa	15800 psi	5 mm/min; ISO 527
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527
	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.89 GPa	1140 ksi	1 mm/min; ISO 527
	8.33 GPa	1210 ksi	50 mm/min; ASTM D638
Flexural Strength	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D790
	180 MPa	26100 psi	ISO 178
Flexural Yield Strength	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	7.02 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.09 J/cm	2.04 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.01 J/cm	16.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m <sup>2</sup>	25.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.11 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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