

SABIC Innovative Plastics LNP THERMOCOMP C7410 PC+ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* C7410 compound is a talc-filled PC+ABS, nonhalogenated FR for thinwall molding applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-C7410-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.26 %	0.26 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13.4 g/10 min @Load 2.16 kg, Temperature 260 ^o C	13.4 g/10 min @Load 4.76 lb, Temperature 500 ^o F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 260 ^o C	12 g/10 min @Load 4.76 lb, Temperature 500 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	5 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Elongation at Break	74 %	74 %	Type I, 5 mm/min; ASTM D638
	78 %	78 %	5 mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
	3.6 %	3.6 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	3.30 GPa Metric	479 ksi English	5 mm/min; ASTM D638 Comments
	3.34 GPa	484 ksi	1 mm/min; ISO 527
Flexural Yield Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178
	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.18 GPa	461 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.26 GPa	473 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.15 J/cm	5.90 ft-lb/in	ASTM D256
	0.710 J/cm	1.33 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	31.0 kJ/mÂ²	14.8 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Â°C	181 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 Â°C	176 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	87.0 Â°C	189 Â°F	Comments
	Metric	English	
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	103 Â°C	217 Â°F	Rate B/50; ASTM D1525
	103 Â°C	217 Â°F	Rate B/50; ISO 306
	106 Â°C	223 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	5VB	5VB	UL 94
	@Thickness 0.000 mm	@Thickness 0.000 in	

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