

SABIC Innovative Plastics LNP COLORCOMP EX12304C PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Colorcomp* EX12304C is an unfilled polyetherimide clean compound with extremely high level of cleanliness for the most demanding application. This compound is manufactured using LNP CCS technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-EX12304C-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Melt Flow	17.8 g/10 min @Load 6.60 kg, Temperature 337 °C	17.8 g/10 min @Load 14.6 lb, Temperature 639 °F	ASTM D1238
Melt Index of Compound	25 g/10 min @Load 5.00 kg, Temperature 220 °C	25 g/10 min @Load 11.0 lb, Temperature 428 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
	105 MPa	15200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	105 MPa	15200 psi	5 mm/min; ISO 527
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 5 mm/min; ASTM D638
	60 %	60 %	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
	3.58 GPa	519 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	160 MPa	23200 psi	2 mm/min; ISO 178
	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	0.32 GPa	75.9 ksi	10, 50 mm span; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.35 J/cm	25.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.8 μm/m-°C	31.0 μin/in-°F	ASTM E 831
	@Temperature -20.0 - 150 °C	@Temperature -4.00 - 302 °F	
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	379 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	198 °C @Thickness 6.40 mm	388 °F @Thickness 0.252 in	
Vicat Softening Point	212 °C	414 °F	Rate B/120; ISO 306

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