



LNP* Lubricomp* Compound DFI12E

Asia Pacific: COMMERCIAL

Also known as: LNP* Lubricomp* Compound DFL-4412 EM

Product reorder name: DFI12E

LNP* Lubricomp* DFI12E is a compound based on Polycarbonate resin containing Glass Fiber, Silicone. Added features of this material include: Internally Lubricated, Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	820	kgf/cm ²	ASTM D 638
Tensile Stress, break	800	kgf/cm ²	ASTM D 638
Tensile Strain, yield	3.5	%	ASTM D 638
Tensile Strain, break	4.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	42100	kgf/cm ²	ASTM D 638
Flexural Modulus	42100	kgf/cm ²	ASTM D 790
Tensile Stress, yield	81	MPa	ISO 527
Tensile Stress, break	79	MPa	ISO 527
Tensile Strain, yield	3.4	%	ISO 527
Tensile Strain, break	3.8	%	ISO 527
Tensile Modulus, 1 mm/min	4210	MPa	ISO 527
Flexural Stress	125	MPa	ISO 178
Flexural Modulus	4000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	81	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	53	cm-kgf	ASTM D 3763
Multiaxial Impact	94	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	142	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	136	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	6.12E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.7E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Af
PHYSICAL			
Density	1.27	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.49	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.57	%	ISO 294
Density	1.27	g/cm ³	ISO 1183