SABIC Innovative Plastics™

LNP* Lubricomp* Compound VN001

Americas: COMMERCIAL

Lubricomp VL-4210 D is a lubricated, super tough nylon grade.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	53	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	48	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	38	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	40.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	2290	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	1910	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	56	MPa	ISO 527
Tensile Stress, break, 5 mm/min	53	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.2	%	ISO 527
Tensile Strain, break, 5 mm/min	28	%	ISO 527
Tensile Modulus, 1 mm/min	2380	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	69	MPa	ISO 178
Flexural Strain, break, 2 mm/min	4	%	ISO 178
Flexural Modulus, 2 mm/min	2080	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1730	J/m	ASTM D 4812
Izod Impact, notched, 23°C	158	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	182	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	216	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	65	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	64	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.1	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2 - 5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2 - 5	%	ASTM D 955
Wear Factor Washer	71	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.79	-	ASTM D 3702 Modified
Static COF	0.36	-	ASTM D 3702 Modified
Density	1.1	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.1	%	ISO 62

Source GMD, last updated:03/26/2008

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.