



LNP™ VERTON™ Compound RX10409D

Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound RX10409D

Product reorder name: RX10409D

LNP VERTON RX10409D is a compound based on Nylon 66 containing proprietary fillers. Added feature of this grade is: Structural.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2060	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	122500	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	3110	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3070	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	113100	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	199	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	11800	MPa	ISO 527
Flexural Stress	285	MPa	ISO 178
Flexural Modulus, 2 mm/min	10340	MPa	ISO 178
IMPACT			
Charpy Impact, unnotched, 23°C	88	kJ/m ²	ISO 179/2C
Izod Impact, unnotched, 23°C	119	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	27	cm-kgf/cm	ASTM D 256
Multiaxial Impact	71	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	224	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	76	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	24	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	22	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	258	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	253	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	2.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.4E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	253	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.42	-	ASTM D 792
Density	1.42	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.66	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	1	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	290 - 305	°C
Front - Zone 3 Temperature	290 - 300	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	280 - 295	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm