

LNP* Verton* Compound RX10409D

Americas: COMMERCIAL

Also known as: LNP* Verton* Compound RX10409D

Product reorder name: RX10409D

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



(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±176.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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
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



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