



## LNP\* Verton\* Compound RV008ESV\_GY7E072 Americas: COMMERCIAL

Preliminary data for 40% long glass fiber filled, single color pellet gray, PA66

## **Property**

Tensile Stress, yld, Type I, 5 mm/min Tensile Stress, brk, Type I, 5 mm/min	184 182 2.1	Unit MPa	Standard ASTM D 638
ensile Stress, brk, Type I, 5 mm/min	182		ASTM D 638
		MD-	
	2 1	MPa	ASTM D 638
ensile Strain, yld, Type I, 5 mm/min	۷.۱	%	ASTM D 638
ensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
ensile Modulus, 50 mm/min	11560	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	273	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	11300	MPa	ASTM D 790
ensile Stress, yield, 5 mm/min	195	MPa	ISO 527
ensile Stress, break, 5 mm/min	195	MPa	ISO 527
ensile Strain, yield, 5 mm/min	2.3	%	ISO 527
ensile Strain, break, 5 mm/min	2.3	%	ISO 527
ensile Modulus, 1 mm/min	10440	MPa	ISO 527
Elexural Stress, break, 2 mm/min	276	MPa	ISO 178
Elexural Modulus, 2 mm/min	10190	MPa	ISO 178
MPACT	Value	Unit	Standard
zod Impact, unnotched, 23°C	1080	J/m	ASTM D 4812
zod Impact, notched, 23°C	246	J/m	ASTM D 256
zod Impact, notched, -40°C	223	J/m	ASTM D 256
nstrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
nstrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
zod Impact, unnotched 80*10*4 +23°C	71	kJ/m²	ISO 180/1U
zod Impact, unnotched 80*10*4 -40°C	69	kJ/m²	ISO 180/1U
zod Impact, notched 80*10*4 +23°C	15	kJ/m²	ISO 180/1A
zod Impact, notched 80*10*4 -40°C	27	kJ/m²	ISO 180/1A
HERMAL	Value	Unit	Standard
IDT, 0.45 MPa, 3.2 mm, unannealed	259	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	255	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.32E-05	1/°C	ASTM E 831
CTE, -30°C to 30°C, xflow	5.83E-05	1/°C	ASTM E 831
IDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Bf
IDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	256	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Pensity	1.485	g/cm³	ASTM D 792
Noisture Absorption, 50% RH, 24 hrs	0.93	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs 0	0.23 - 0.43	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 - 1.1	%	ASTM D 955
Pensity	1.48	g/cm³	ISO 1183
Noisture Absorption (23°C / 50% RH)	0.65	%	ISO 62

Source GMD, last updated:10/30/2008

## **Processing**

Parameter		
Injection Molding	Value	Unit
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

Source GMD, last updated:10/30/2008

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.

DISCIAIMER: THE MATERIALS AND PRODUCTS OF THE BUSINESSES MAKING UP THE SABIC INNOVATIVE

- (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.

PLASTICS COMPANY, ITS SUBSIDIARIES AND AFFILIATES ("SABIC IP"), ARE SOLD SUBJECT TO SABIC IP'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SABIC IP MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (I) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SABIC IP MATERIALS, PRODUCTS, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SABIC IP'S STANDARD CONDITIONS OF SALE, SABIC IP AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS OR PRODUCTS DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of SABIC IP's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating SABIC IP materials or products will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of SABIC IP's Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by SABIC IP. No statement contained herein concerning a possible or suggested use of any material, product or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of SABIC Innovative Plastics Company or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product or design in the infringement of any patent or other intellectual property right

© 1997-2009 SABIC Innovative Plastics Company.All rights reserved

<sup>\*</sup> LNP is a trademark of the SABIC Innovative Plastics Company

<sup>\*</sup> Verton is a trademark of the SABIC Innovative Plastics Company