



NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution

SYMP LASTICS

RAMEX® VR - NATURAL VIRGIN

PHYSICAL PROPERTIES	TYPICAL VALUES	TEST METHODS
Density, g/cm ³	0.930 - 0.940	ASTM D 792
Hardness, Rockwell R Scale	64 - 68	ASTM D 785
Durometer (D/15)	68 - 72	ASTM D 2240
Deflection temperature * F (° C)		ASTM D 648
At 66 psi	174 (79)	
At 264 psi	115 (46)	
Recommended Operating Temperature Range		Internal
Maximum Continuous, °F (°C)	180 (82)	
Minimum Continuous, °F (°C)	Cryogenic	
Tensile properties		ASTM D 638
Maximum strength, psi	4,800 - 6,200	2 in./min
MPa	33 - 43	
Yield strength, psi	2,900 - 3,500	
MPa	20 - 24	
Modulus, psi	100,000 - 150,000	
MPa	689 - 1033	
Elongation at break, %	300 - 450%	
Flexural modulus, psi	100,000 - 150,000	ASTM D 790
MPa	689 - 1033	
Izod impact strength at 23° C, ft-lbs/in ² (KJ/m ²)		
Notched	No break	ASTM D 256A
Double Notched	> 20 (42)	Internal
Mean coefficient of linear thermal expansion per ° C	2 x 10 ⁻⁴	ASTM D 696
Coefficient of friction against Cr-plated steel at 23° C		ASTM D 1894
Static	.20 - .25	
Dynamic	.14 - .17	
Abrasion Index (Relative to steel at 100)	10	Sand Slurry
Dielectric constant, 60 cycles to 10 ⁶ cycles	2.3-2.35	ASTM D 150
Surface Resistivity, ohms	>10 ¹¹ Ω	ASTM D 257
Volume Resistivity, ohms-cm	>10 ¹¹ Ω	ASTM D 257

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, whether alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products. For most recent technical information, phone (800) 346-1739 in USA or (800) 661-2387 in Canada.

Date Issued: November 14, 1997 Date Revised: June 14, 1999

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
phone 800-282-4388 / 713-979-0660
phone 800-457-8623 / 601-825-7919

fax 214-239-3871
fax 713-979-0664
fax 601-825-7109

www.nationwideplastics.net

January 1, 2007 - Version 3.0