



VinPol™ MD00240

Medium Density Polyethylene

Melt Index: 0.20

Density: 0.940

VINPOL MD00240 is a natural, UV-stabilized medium density polyethylene copolymer pipe and tubing resin suitable for natural gas distribution. When blended with an approved yellow masterbatch, the resulting formulation is recognized by the Plastics Pipe Institute as a PE2708 resin which exhibits excellent long term strength and outstanding environmental stress crack resistance and is certified to the material requirements of ASTM D2513 and CSA B137.4.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.0 kg at 190 °C	0.20	g/10 min	ASTM D-1238
21.6 Kg at 190 °C (HL)	20	g/10 min	ASTM D-1238
<u>Compression Molded Sample Used</u>			
Tensile Strength, 2 in/min			
@ Yield	2,800 (19.3)	psi (MPa)	ASTM D-638
@ Break	4,750 (32.7)	psi (MPa)	ASTM D-638
Elongation, 2 in/min			
@ Yield	11.8	%	ASTM D-638
@ Break	>800%	%	ASTM D-638
Flexural Modulus, 2% Secant	90,000 (620)	psi (MPa)	ASTM D-790A
Notched Izod Impact Strength, 23°C	7 (37)	ft-lbf/in (kJ/m²)	ASTM D-256
Hardness	62	Shore D	ASTM D-2240
Vicat Softening Point	248 (120)	°F (°C)	ASTM D-1525
Brittleness Temperature	<-180 (<-118)	°F (°C)	ASTM D-746
ESCR, Cond. B, 10% Igepal, F ₅₀	>5,000	hrs.	ASTM D-1693
ESCR, Cond. C, 100% Igepal, F ₅₀	>5,000	hrs.	ASTM D-1693
Notched Tensile (PENT)	>500	hrs.	ASTM F-1473
Oxidation Induction Time, 210°C	> 20	min.	ASTM D-3895
Thermal Stability	>464 (>240)	°F (°C)	ASTM D-3350
Cell Classification	234370D		ASTM D-3350
Hydrostatic Design Basis (HDB), 23°C	1,250 (8.6)	psi (MPa)	ASTM D-2837
Hydrostatic Design Basis (HDB), 60°C	1,000 (6.9)	psi (MPa)	ASTM D-2837

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

Vinmar Polymers America, LLC / 16825 Northchase Drive, Suite 1400, Houston, TX 77060
Phone: 281-902-0900 Fax: 281-260-8096

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