VPA
vinmar polymers america

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

Compression Molded Sample Used
Tensile Strength, 2 in/min
    @ Yield
    @ Break
	
	2,800 (19.3)
	4,750 (32.7)
		
		psi (MPa)
		psi (MPa)
			
			ASTM D-638
			ASTM D-638

Elongation, 2 in/min
    @ Yield
    @ Break
	
	11.8
	>800%
		
		%
		%
			
			ASTM D-638
			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/m^2)	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

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