

Producer: Ciplas / The United States (USA)

CIPLAS HP1044N

PRODUCT DESCRIPTION

HDPE pipe resin with long term hydrostatic strength and resistance to slow crack growth.

APPLICATIONS

Product used for natural gas distribution pipes, large diameter industrial pipe, mining, and sewage.

TYPICAL PROPERTIES

PROPERTY	TEST	UNIT	VALUE
Melt Flow Index (190°C/2.16 kg)	ASTM D1238	g/10 min	0.10
Density (Natural resin)	ASTM D792	g/cm ³	0.943 - 0.954
Flexural Modulus ¹ (3 point load)	ASTM D790B	psi	119,000 - 121,000
Tensile Strength at Yield	ASTM D638	psi	3,100 - 3,300
Elongation at Break	ASTM D638	%	840 - 860
Slow Crack Growth PENT (80°C)	ASTM F1473	hrs	200
Brittleness Temperature	ASTM D746A	°C	< - 100
Thermal Stability	ASTM D3350	°C	> 250
Melt Temperature		°C	193 to 227
Notched Izod Impact ¹ (23°C)	ASTM D1709	g/mil	330 - 350

1 . Compression molded parts prepared according to ASTM D4703, Procedure C. Properties will vary with changes in molding conditions and aging time.