HDPE CD-471

High Density Polyethylene Pipe Resin

PIPE

RESIN PROPERTIES [1]

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	–
190°C/2.16 kg	–	–	0.28
190°C/21.6 kg (HLMI)	–	–	20
Density	D792	g/cm^3	0.947
Melting Temperature	D3417	°F	259

MECHANICAL PROPERTIES [1] [2]

	Method	Unit	Typical Value
Tensile Strength at Yield	D638	psi	3,300
Elongation at Break	D638	%	> 600
Flexural Modulus	D790	psi	115,000
Shore Hardness, D Scale	D2240		63
ESCR 10% lgepal, F10 condition B	D1693	hrs	>100

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) The data listed were determined on compression-molded specimens and may, therefore, vary from specimens taken from molded articles.
(3) CD-471 with a density < 0.947 g/cc has a cell classification (defined in ASTM D3350) of PE335480A whereas lots with a density > 0.947 g/cc are best described with a cell classification of PE435480A. When CD-471 is blended with a carbon black masterbatch that results in a 2% to 4% level of carbon black in the final conduit or a colored masterbatch containing UV additives that results in outdoor storage protection of at least one year, the resulting material used in the production of conduit will exceed the minimum cell classification of PE334480C or PE334480E, respectively, as permitted in standards ASTM F2160, UL 651A, and NEMA TC-7.

CHARACTERISTICS:

- Excellent melt strength
- Good stress cracking resistance and impact strength
- Meets material requirements for ASTM F2160[3]

APPLICATIONS:

- Conduit
- Corrugated pipe
- Profile extrusion