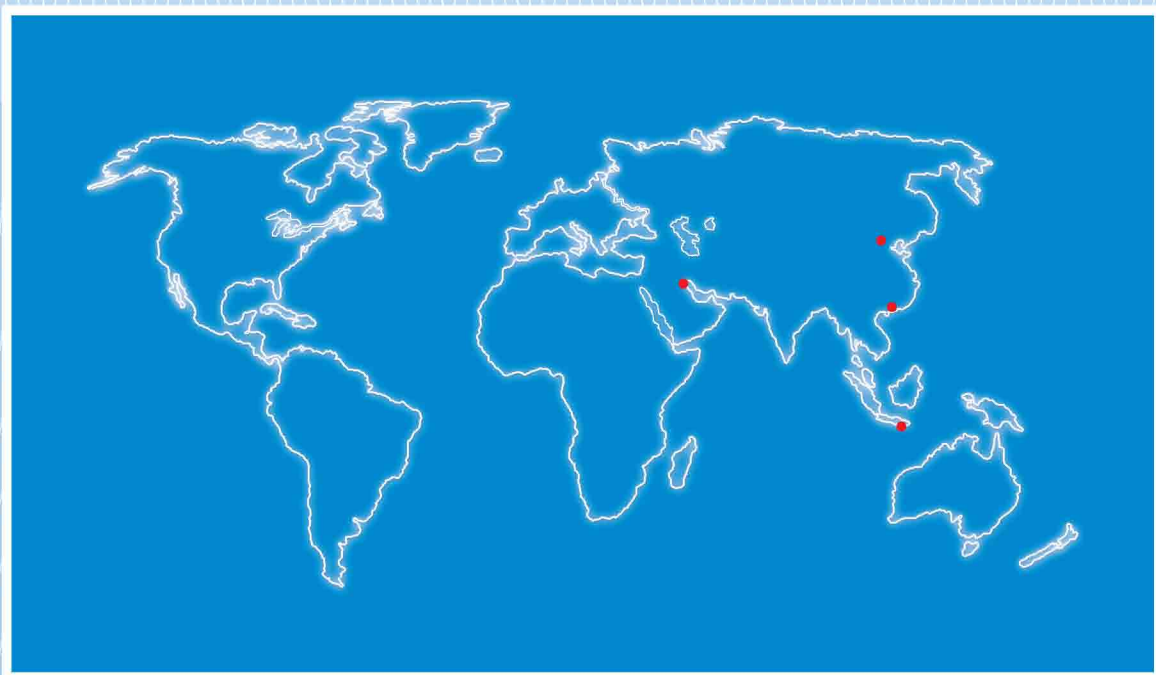


All around you.

EPDA-5040

HDPE Non-Pressure Gravity Pipe Resin



DESCRIPTION

EPDA-5040 is a natural high molecular weight high density polyethylene copolymer resin designed for non-pressure gravity pipe applications. It has a good balance of flexibility, ductility, stiffness and toughness for exceptional freedom in pipe designing. EPDA-5040 has been adequately stabilized for long-term service life durability. Also It has an excellent environmental stress cracking resistance (ESCR) property. The product's broad molecular weight distribution provides for easy procesability in to pipe extruder with smooth pipe surfaces and good dispersion of pigments, and carbon black for protection against UV light.

APPLICATIONS

EPDA-5040 applications include gravity pipe systems for underground drainage and sewage. It is suitable for both straight and structured wall pipes. In addition it can also be used for extruding electrical conduits.



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TYPICAL PROPERTIES

Properties	Units	Test Method	Typical Value
Resin Properties			
High Load Melt Index, I ₂₁	g/10 min	ASTM D 1238	10
Density	g/cm ³	ASTM D 1505	0.952
Mechanical Properties			
Tensile Strength @ Yield	MPa	ASTM D 638	26
Tensile Strength @ Break	MPa	ASTM D 638	35
Tensile Elongation @ Break	%	ASTM D 638	800
Flexural Modulus	MPa	ASTM D 790	1180
Izod Pendulum Impact Resistance (Notched)	J/m	ASTM D 256	>213
ESCR, 100% Igepal, @ 50°C, F ₅₀	Hour	ASTM D 1693 B	>1000
Thermal Properties			
Vicat Softening Temperature	°C	ASTM D 1525	130
Flexural Load Deflection Temperature (445KPa)	°C	ASTM D 648	99
DSC Melting Point	°C	EQUATE	135
DSC Crystallization Point	°C	EQUATE	113
Coefficient of Linear Expansion	-	ASTM D 696	1.5 x 10 ⁻⁴

ASTM: American Society for Testing and Materials
Values shown are typical and not to be construed as specification.

TYPICAL EXTRUSION CONDITIONS

Depending upon the equipment and size and wall thickness of the pipe, the processing conditions may vary. However, the following extrusion temperatures are offered as a guide:

Barrel Zone	200-205° C
Adapter and Die	205° C
Melt Temperature	210° C

AVAILABILITY

EPDA-5040 is supplied in 25-Kg bags in secured pallets of 55 bags (1.375 MT net) and in sea bulk containers.

STORAGE AND HANDLING

EPDA-5040 is supplied in pellet form and is readily conveyed on conventional polyethylene bulk handling equipment. The bulk handling system should be designed to prevent accumulation of fines and dust particles that can pose an explosion hazard. Ensure all equipment is properly grounded. The product should be stored in a cool dry shaded area away from dust, sunlight and heat. Also carefully review the **Material Safety Data Sheet (MSDS)** supplied with this product for health, safety and waste considerations.

IMPORTANT NOTICES

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