

## Equate EPDA-5040 HDPE Non-Pressure Gravity Pipe Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

### Material Notes:

EPDA-5040 is a 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. It also offers excellent resistance to environmental stress cracking. EPDA-5040 has been adequately stabilized for long-term service life durability. The broad molecular weight distribution provides for easy processability in to pipe with smooth pipe surfaces and good dispersion of pigments, and carbon black for protection against UV. Applications: EPDA-5040 applications include gravity pipe systems for underground drainage and sewage. It is suitable for both straight and structured wall pipes and for extruding electrical conduits. Information provided by Equate

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Equate-EPDA-5040-HDPE-Non-Pressure-Gravity-Pipe-Resin.php](http://www.lookpolymers.com/polymer_Equate-EPDA-5040-HDPE-Non-Pressure-Gravity-Pipe-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	ASTM D1693 B
High Load Melt Index	10 g/10 min @Load 21.0 kg	10 g/10 min @Load 46.3 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	>= 750 %	>= 750 %	ASTM D638
Flexural Modulus	1.18 GPa	171 ksi	ASTM D790
Izod Impact, Unnotched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ASTM D969
Melting Point	135 °C	275 °F	Equate Test Method
Crystallization Temperature	113 °C	235 °F	Equate Test Method
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	ASTM D648
Vicat Softening Point	130 °C	266 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	200 °C	392 °F	
Zone 2	205 °C	401 °F	
Zone 3	205 °C	401 °F	
Zone 4	205 °C	401 °F	
Adapter Temperature	205 °C	401 °F	
Die Temperature	205 °C	401 °F	
Melt Temperature	210 °C	410 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China