

Marlex® HXB TR-494

High Density (UHMW) Polyethylene
Chevron Phillips Chemical Company LLC

Message:

This broad molecular weight distribution, extra high molecular weight ethylene-hexene copolymer is tailored for corrugated pipe applications that require excellent:

- Melt strength
- Pipe stiffness
- Creep resistance
- Impact resistance
- Slow Crack Growth Resistance
- Chemical resistance

Typical corrugated pipe applications for HXB TR-494 include:

- Roadway culverts
- Storm sewers
- Land drainage
- Conduit/Duct

This resin meets these specifications:

- ASTM D4976 - PE 235
- AASHTO M 294
- AASHTO M 252
- ASTM D3350, Cell Class PE446640A

General Information			
Features	Ultra high molecular weight		
	hexene comonomer		
	Impact resistance, good		
	Wide molecular weight distribution		
	Good cracking resistance		
	Good creep resistance		
	Good melt strength		
	Good chemical resistance		
Uses	Bellows		
	Catheter		
Agency Ratings	AASHTO M252		
	AASHTO M294		
	ASTM D 3350 PE446640A		
	ASTM D 4976-PE235		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			

10% Igepal, Molded, F10	> 1000	hr	ASTM D1693B
100% Igepal, Molded, F20	> 600	hr	ASTM D1693C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - 2% Secant ³ (Compression Molded)	1340	MPa	ASTM D790
Additional Information	Nominal Value	Unit	Test Method
NCLS	> 24	hr	ASTM F2136
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		
3.	13 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

