



Tabriz Petrochemical Company

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HD 4440EA
High Density polyethylene

- Product Description

- HD-4440EA is a high density polyethylene copolymers containing butane-1 as the comonomer with narrow molecular weight distribution. It is for extrusion of silane crosslinked pipes (PE-Xb).

- Applications

- Hot water pipes
- Cold water pipe

- Typical data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	4.0
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm ³	0.944
Formulation			
Anti Oxidant		√	
UV Stabilizer			
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	900
Tensile Strength at yield	ASTM D 638	MPa	18
Elongation at Break	ASTM D 638	%	900
Charpy Impact Strength	ASTM D 256	Kj/m ²	5
Hardness Shore D	ASTM D 2240	-	62
ESCR, F50, 10% Igepal,	ASTM D1894	hr	18
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	117
Melting Point	ASTM D2117	°C	130