

Persian Gulf Petrochemical Industry Commercial Co.

Arya Sasol Petrochemical Company



Polymers



Chemical &  
Aromatics



Fuel & Feeds  
Stock

# HDPE (HCH 5110)

Physical Properties	UNIT	Value	TEST METHOD
Density (23 oC)	Kg/m <sup>3</sup>	951	ISO 1183
MFI (190 oC /21.6Kg)	dg/min	10	ISO 1133
Mechanical properties			
Tensile Modulus of elasticity	MPa	1050	ISO527-1;2
Tensile Strength (MD)	MPa	55	ISO 527-1;3
Tensile Strength (TD)	MPa	55	ISO 527-1;3
Tensile Strain at Break (MD)	%	580	ISO 527-1
Tensile Strain at Break (TD)	%	620	ISO 527-1
Tensile stress at Yield	MPa	26	ISO 527-1
Tensile strain at Yield	%	10	ISO 527-1
Elemendorf tear strength(MD)	mN	250	ISO 6383-2
Elemendorf tear strength(TD)	mN	800	ISO 6383-2
Thermal Properties			
Melting Point	oC	132	ISO 3146
Vicat Temperature , (A50,50 oC/h , 10 N)	oC	127	ISO 306

## APPLICATION

Film, Bags, Products for Use in Property Modification

Additive

Antioxidant –Heat stabilizer Zinc Stearate