

Persian Gulf Petrochemical Industry Commercial Co.

Arya Sasol Petrochemical Company



Polymers



Chemical &
Aromatics



Fuel & Feeds
Stock

HDPE (MCH 3713)

Physical Properties	UNIT	Value	TEST METHOD
Density (23 oC)	Kg/m ³	937	ISO 1183
MFI (190 oC /21.6Kg)	dg/min	13	ISO 1133
MFI (190 oC /2.16Kg)	dg/min	0.1	ISO 1133
Mechanical properties			
Tensile Modulus of elasticity	MPa	735	ISO527-1;2
Max. Tensile Strength (MD)	MPa	46	ISO 527-1;3
Max. Tensile Strength (TD)	MPa	46	ISO 527-1;3
Tensile Strain at Break (MD)	%	550	ISO 527-1
Tensile Strain at Break (TD)	%	650	ISO 527-1
Elemendorf tear strength(MD)	mN	210	ISO 6383-2
Elemendorf tear strength(TD)	mN	1100	ISO 6383-2
Failure energy	J/mm	7	DIN 53373
Dart Drop Impact	g	120	ASTM D 1709
Thermal Properties			
Melting Point	oC	127	ISO 3146
Vicat Temperature , (A50,50 oC/h , 10 N)	oC	121	ISO 306

APPLICATION

Additive

Antioxidant –Heat stabilizer

Film, Bags, Film extrusion Blending partner, (Refuse) bags, T-shirt bags, carrier bags