



SHOBEIR SHIMI
WWW.SHOBEIRSHIMI.COM
Info@shobeirshimi.com

ARYA SASOL POLYMER COMPANY

HIGH-DENSITY POLYETHYLENE HD3713

HDPE HD3713 is a high-density polyethylene resin specifically engineered for film applications. It is characterized by its exceptional toughness, excellent processability, and superior resistance to environmental stress cracking.

Producer	Characteristic Properties	Applications	Additive
Arya Sasol Petrochemical	High Impact Strength Optimal Processability Enhanced Environmental Stress Crack Resistance	suitable for Film, Bags, Film extrusion (Blending partner, (Refuse) bags, T-shirt bags, carrier bags)	Antioxidant -Heat stabilizer

Typical Properties

Resin Properties	Unit	Typical	ASTM Method
------------------	------	---------	-------------

Density (23°C)	kg/m ³	937	ISO 1183
----------------	-------------------	-----	----------

MFI (190 °C /2.16Kg)	g/min	0.1	ISO 1133
----------------------	-------	-----	----------

Thermal Properties	Unit	Typical Value	Test Method
--------------------	------	---------------	-------------

Melting Point	°C	127	ISO 75
---------------	----	-----	--------

Vicat Temp , (A50,50 °C /h , 10 N)	°C	121	ISO 306
------------------------------------	----	-----	---------

Mechanical Properties	Unit	Typical Value	Test Method
-----------------------	------	---------------	-------------

Tensile Modulus of elasticity	MPa	735	ISO 527-1, -2
-------------------------------	-----	-----	---------------

Tensile Strength	MPa	MD=TD=46	ISO 527-1;3
------------------	-----	----------	-------------

Tensile Strain at Break	%	MD=550,TD=650	ISO 527-1
-------------------------	---	---------------	-----------

Elemendorf tear strength	mN	MD=210,TD=1100	ISO 6383-2
--------------------------	----	----------------	------------

Failure energy	J/mm	7	DIN 53373
----------------	------	---	-----------

Dart Drop Impact	g	120	ASTM D 1709
------------------	---	-----	-------------