TDS TECHNICAL DATA SHEET

HDPE EX5

High Density Polyethylene · Blown Film Grade

Also traded as **HM9450F · X5** · Origin: **Iran**

MFR (190 °C / 5 KG)	DENSITY	PROCESS	DART DROP (20 MM)
0.28 g/10 min	**0.949** g/cm³	**Blown Film**	**220** g

PRODUCT DESCRIPTION

HDPE EX5 is a high-molecular-weight, bimodal high density polyethylene with 1-butene as comonomer. It combines good stiffness and tenacity with a low gel level, producing strong blown films with a paper-like feel for bags and wrapping.

- High molar mass film grade
- Low gel level
- Good stiffness & tenacity
- Food-contact grade

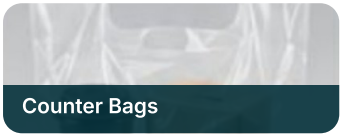
PROCESSING GUIDE

Process	**Blown film extrusion**
Melt temperature	**200 – 230 °C**
Blow-up ratio	**≈ 4 : 1**
Film thickness	**10 – 200 µm**

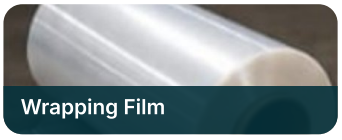
TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Density (23 °C)	ISO 1183	g/cm³	**0.949**
Melt Flow Rate (190 °C / 5 kg)	ISO 1133	g/10 min	**0.28**
Melt Flow Rate (190 °C / 21.6 kg)	ISO 1133	g/10 min	**8**
Flow Rate Ratio (21.6 / 5)	—	—	**29**
MECHANICAL			
Stress at Yield	ISO 527	MPa	**24**
Stress at Break	ISO 527	MPa	**35**
Hardness, Shore D	ISO 868	—	**60**
THERMAL			
Brittleness Temperature	ASTM D746	°C	**< −80**
FILM (20 MM)			
Tensile Strength MD / TD	ISO 527	MPa	**45 / 40**
Elongation MD / TD	ISO 527	%	**400 / 450**
Elmendorf Tear MD / TD	ISO 6383-2	mN	**200 / 450**
Dart Drop Impact	ASTM D1709	g	**220**

APPLICATIONS


Counter Bags


Carrier Bags


Wrapping Film


Blown Film

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

Get Today's Rate

Scan for a WhatsApp quote. Weekly rates: t.me/rabinpolybot

+98 912 640 4020

◆ DIRECT SUPPLY FROM IRAN ◆ PRIME VIRGIN GRADES ◆ LOT DETAILS IN EVERY OFFER ◆ EXPORT BY SEA, ROAD & RAIL

PHONE
+98 21 25903
+971 58 687 5544 (Dubai)

WHATSAPP
+98 912 640 4020
+98 912 859 5824

EMAIL
sales@rabinpolymer.com
Pasdaran, Tehran, Iran

WEB
en.rabinpolymer.com
/product/hdpe-ex5/

The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.