

HD –EX 4
License Grade Code HM 9455 F

1) Product Description:
“EX4” is a high density polyethylene with 1-Butene as co monomer .It is high rigidity, low gel level, high drowdown, somewhat stiffer than EX 5 .

- 2) Applications:**
- Film extrusion
 - Blending partner
 - (refuse) bags, carrier bags

3) Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23oC)	ISO 1183	g/cm3	0.956
Melt Flow Rate (190oC/5.0kg)	ISO 1133	g/10min	0.28
Melt Flow Rate (190oC/21.6 kg)	ISO 1133	g/10min	8
Stress at Yield	ISO 527	MPa	27
Stress at Break	ISO 527	MPa	35
Softening Temperature	ISO 306	oC	75
Brittle Temperature	ASTM D746-72	oC	< - 80
Shore D hardness	ISO 868	-	61
Application Properties**			
Max. Tensile strength MD / TD.	ISO 527	MPa	45/40
Tear strength MD / TD	ISO 6383-2	m N	200/400
Max. elongation MD / TD	ISO 527	%	400/450
Dart Drop Impact	ASTM D 1709	g	220

* Typical Values : not to be construed as specifications ** Blown film : thickness 20 μm, extruded at melt temperature of 200^oC and a blow up ratio 4:1

- 4) Processing conditions:**
Recommended melt temperature: 200 - 230^oC
Recommended film thickness: 10 - 200μm
Producer: Marun Petrochemical Co.
Licensor: Basell
Packing: 25 Kg plastic bag