



High Density Polyethylene (HDPE)

Grade	Melt Flow Index (gr/10min)	Applications
5218	18 (2.16 kg)	Injection moldings grade for House wares, Thin walled food containers, "PET" bottle base cup
5620	20 (2.16kg)	Injection moldings grade for House ware, Toys, Thin walled containers, etc.
6070	7 (2.16kg)	Injection moldings grade for Crates, Boxes , Seats
5740	4 (2.16kg)	Injection moldings grade for Pallet, House ware, Toys
3840	4(2.16kg)	Rotational molded items with good stiffness Septic tanks, Ordinary containers
5813	13(2.16kg)	Injection moldings grade for House ware, Toys, thin walled containers
0035	0.35(2.16kg)	Well suited for wide range of blow molding applications due to its unique properties. These range from bottles for bleach , motor oil , toiletries , mild and distilled water. This grade is also used to make small containers (from 10 cc to 20 lit.).
6040	3.5(2.16kg)	Injection moldings grade
5030	2.5(2.16kg)	Injection molding grade specially for cap (ESCR ,F50,10% Igepal= 40 Hr)
EX1(HF7740)	1.6 (5kg)	Stretched film tape
EX2(HF7750)	2.5 (5kg)	Monofilament





EX3 (HM5010T2N)	0.45(5kg)	Pressure pipes, e.g. drinking water pipes, gas pipes, discharge pipes, sewer pipes, for injection molded and other fittings, as well as sheets
EX4(HM9455F)	0.28(5kg)	Film Extrusion
EX5(HM9450F)	0.28(5kg)	Blown film, paper like film suitable for wrapping, counter bags and carrier bags
I2	10(2.16kg)	Injection molded article such as house hold articles
I3	8(2.16kg)	Transport and stacking crates particularly bottle crates
I4	3.5(2.16kg)	Injection for thick walled
BL2	1.2(5kg)	Disinfectant bottles up to 2 liters, Containers up to 10 liters, Petrol cans up to 5 liters. (high ESCR)
BL3	1.2(5kg)	Containers up to 10 liters, sheets for thermoforming
BL4	0.35(5kg)	General purpose grade for containers from 1 liter to about 500 liters capacity
52518	18(2.16kg)	Injection molding grade
60505	5.5(2.16kg)	Injection molding grade
CRP100- Natural	0.22(5kg)	Used for production of top quality PE- 100
CRP100- Blackl	0.22(5kg)	Used for production of top quality PE- 100 for all purpose

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Typical Properties of High Density Polyethylene (HDPE)						
property	Melt index (190 °C /2.16 kg)	Density 23 ⁰ c	Tensile strength @ yield	Elongation @ break	Charpy Impact	VSP
Method	ASTM D- 1238	ASTM D- 792	ASTM 638 D-	ASTM D- 638	ASTM 256 D-	ASTM D- 1525
Unit	gr/10min	gr/cm ³	MPa	%	Kj/m ²	°C
Producer of following grades: Tabriz Petrochemical Company (TPC)						
5620	20	0.956	22	900 min.	10 min.	-
5218	18	0.952	20 min	900 min.	3 min.	115 min.
5813	13	0.958	28	800 min.	4 min.	-
6070	7	0.960	26min	900 min.	5 min.	120 min.
6040	4	0.957	26	1000min	11	125
5740	4	0.957	27	1000 min.	10 min. (notched)	-
5030	2.5	0.952	22	900min	15	125
3840	4	0.938	15	900 min.	18 min.	115 min.
Producer of following grade : Bandar Imam Petrochemical Company (BIPC)						





0035	0.35	0.959	290gr/cm ² (@break)	900 min.	25kg.cm/cm (Izod impact)	126 min.
Producer of following grades : Amir Kabir and Maroon Petrochemical Company						
EX1	1.6 (5kg) , 22 (21.6g)	0.944				
EX2	2.5 (5kg) , 27 (21.6kg)	0.956				
EX3	0.45(5 kg),12(21.6 kg)	0.945	22		12	67(50°C/50N)
EX4	0.28 (5kg) , 8 (21.6kg)	0.956	27	MD: 400 TD: 450		75 (50°C/50N)
EX5	0.28(5kg),8(21.6kg)	0.949	24	MD:400 TD:405	-	75 (50°C/50N)
I2	10(2.16kg), 28(5kg)	0.950	24	1000 min	3	64 (50°C/50N)
I3	8(2.16kg),23(5kg)	0.957	29	1000 min	3	72 (50°C/50N)
I4	3.5 (2.16kg) , 11(5kg)	0.954		Notched Impact= 4mj/mm2		
52518	18 (2.16kg)	0.952		Notched Impact= 25		122
60505	5.5 (2.16kg)	0.957	30	Notched Impact= 46		127
CRP100	0.22 (5kg) , 6.2 (21kg)	0.957	Hydrostatic Strength (4.5 N/mm 80 °C) = 5000h			
BL2	1.2(5kg) ,23(21.6kg)	0.946	22	600 min	10	70 (50°C/50N)
BL3	1.2(5kg) ,23(21.6kg)	0.954	26	600 min	9	77 (50°C/50N)
BL4	0.35(5kg) ,8.5(21.6kg)	0.952	-	-	25	-

