



Tabriz Petrochemical Company

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**HD -6040 UA**  
**High Density polyethylene**

**- Product Description**

- HD-6040UA is an ultra-violet light stabilized high density polyethylene injection grade with a narrow molecular weight distribution, specially developed for injection moulding of heavy duty parts for outdoor application. Articles produced from this grade exhibit excellent impact strength and stiffness, low warpage, good weathering resistance.

**- Applications**

- Pallet
- Technical parts
- Large dustbins and pails
- Shipping container
- Fish crates
- Storing cases

**- Typical Data**

Property	Test Method	Unit	Typical Value
<b>Physical Properties</b>			
MFI(190°C/2.16Kg)	ASTM D 1238	gr/10Min	3.6
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm <sup>3</sup>	0.960
<b>Formulation</b>			
Anti Oxidant			√
UV Stabilizer			√
<b>Mechanical Properties</b>			
Flexural Modulus	ASTM D 790	MPa	1250
Tensile Strength at yield	ASTM D 638	MPa	31
Elongation at Break	ASTM D 638	%	1000
Charpy Impact Strength	ASTM D 256	Kj/m <sup>2</sup>	11
Hardness Shore D	ASTM D 2240	-	68
ESCR, F50, 10% Igepal,	ASTM D1894	hr	12
<b>Thermal Properties</b>			
Vicat Softening Temperature	ASTM D 1525	°C	125
Melting Point	ASTM D2117	°C	132

The above data are typical laboratory average. They are intended to serve as guide only.

