



TPC

Tabriz Petrochemical Company

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**HD -5218UA
High Density polyethylene**

- Product Description

- HD-5218UA is a high density polyethylene copolymers containing butane-1 as the co-monomer with narrow molecular weight distribution, suitable for thin wall injection application. It has been designed for fast cycling application and low warpage with a good balance of toughness and stiffness characteristics.

- Applications

- Houseware
- Thin walled containers
- Food container
- Toys
- Home utensil

- Typical Data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	18.0
MFI(190°C / 5.0Kg)			52.0
Density	ASTM D 1505	gr/cm ³	0.952
Formulation			
Anti Oxidant			√
Slip Agent			-
UV Stabilizer			√
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	1050
Tensile Strength at yield	ASTM D 638	MPa	20
Elongation at Break	ASTM D 638	%	900
Charpy Impact Strength	ASTM D 256	Kj/m ²	3
Hardness Shore D	ASTM D 2240	-	65
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	115
Melting Point	ASTM D2117	°C	131