



SHOBEIR SHIMI
WWW.SHOBEIRSHIMI.COM
info@shobeirshimi.com

ILAM PETROCHEMICAL COMPLEX (ILPC)

HIGH DENSITY POLYETHYLENE HDPE -7700M

HDPE 7700M is a natural, bimodal technology, high-density polyethylene classified as an MRS 10.0 material (PE100), providing superior mechanical properties and processability. HDPE 7700M also shows excellent resistance to rapid crack propagation and slow crack growth.

Producer	Characteristic Properties	Applications
Ilam	good stiffness, impact resistance, and processability, making it suitable for a variety of injection molded products.	Housewares and kitchenware Toys and sports equipment Caps and closures

Typical Properties

Resin Properties	Unit	Typical Value	Test Method
Melt Flow Rate(5kg)	g/10min	0.27	ISO 1133
Density	Kg/m ³	949	ISO 1183
Tensile Stress at Yield	Kg/cm ²	-	ASTM D 638
Tensile Strength at Break	Kg/cm ²	380	ASTM D 638
MFR190°/5	%	>500	ASTM D 638
Notched Impact (23°C)	hr	>1000	ASTM D 1693
Carbon Black Content	°C	132	ASTM D 3418
Carbon Black Dispersion	Kg.cm/cm	35	ASTM D 256