



NCT Middle East FZE

High Density Polyethylene Injection - HDIM30

Description : This grade is an easy flow HDPE grade, characterized by high gloss and dimensional stability.

Applications : It is typically used for the injection molding of multicavity thin-walled housewares, and containers.

Injection properties

Physical Properties	Unit	Typical Value (SI)	Test Method (based on)
Melt Flow Rate (2.16kg)	g/10min	30	ASTM D 1238
Density	g/cm ³	0.954	ASTM D 1928/D 1505
Melting Point (DSC)	°C	130	ASTM D 3418
Crystallization Point (DSC)	°C	114	ASTM D 3418
Vicat Softening Point (DSC)	°C	121	ASTM D 1525
Mechanical Properties			
Elastic Modulus (0.05 - 0.25%)	Mpa	860	ISO 527 - 2/1B/1
Flexural Modulus (0.05 - 0.25%)	Mpa	900	ISO 178
Tensile at Yield	Mpa	22	ISO 527 - 2/1B/1
Elongation at Break	%	> 100	ISO 527 - 2/1B/1
Elongation at Yield	%	10	ISO 527 - 2/1B/1
Izod Impact	kJ/m ²	4	ISO 180-4A
Shore Hardness - D (15 sec)		59	ASTM D 2240
ESCR (F50, 100% Lgepal)	h	0.5	ASTM D 1693

Typical Properties : these are not to be construed as specifications.

