TDS TECHNICAL DATA SHEET

HDPE 52518

High Density Polyethylene · Injection Moulding Grade

Also traded as **HD52518** · Origin: **Iran**

MFI (190 °C / 2.16 kg)	Density	Process	Flexural Modulus
18 g/10 min	**0.952** g/cm³	**Injection**	**1200** MPa

PRODUCT DESCRIPTION

HDPE 52518 is a high-flow HDPE copolymer for injection moulding, offering a good balance between easy processing, flowability and mechanical properties. It is widely used for housewares, toys and flower pots.

- High fluidity
- Easy processing
- Balanced stiffness & impact
- Short cycle times

PROCESSING GUIDE

Process	**Injection moulding**
Melt temperature	**180 – 240 °C**
Mould temperature	**20 – 40 °C**
Form	**Natural pellets**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Index (190 °C / 2.16 kg)	ASTM D1238	g/10 min	**18**
Density	ASTM D1505	g/cm³	**0.952**
MECHANICAL			
Flexural Modulus	ASTM D790	MPa	**1200**
Izod Impact Strength, notched (23 °C)	ASTM D256	J/m	**19**
THERMAL			
Vicat Softening Point	ASTM D1525	°C	**121**

APPLICATIONS

- Housewares
- Toys
- Flower Pots
- Caps & Closures

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

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The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.