TDS TECHNICAL DATA SHEET

PP 440L

PP Impact Copolymer · Injection Moulding Grade

Also traded as **EP440L** · Origin: **Iran**

MFR (230 °C / 2.16 kg)	DENSITY	PROCESS	IZOD (23 °C)
6 g/10 min	**0.90** g/cm³	**Injection**	**500** J/m

PRODUCT DESCRIPTION

PP 440L is a medium-flow heterophasic copolymer with an improved balance of mechanical properties: high stiffness and outstanding low-temperature impact strength for injection moulding. It delivers about 35% higher toughness than conventional copolymers of the same MFR and rigidity.

- High stiffness
- Outstanding low-temp impact
- ≈ 35% higher toughness
- Heterophasic copolymer

PROCESSING GUIDE

Process	**Injection moulding**
Melt temperature	**210 – 260 °C**
Mould temperature	**20 – 50 °C**
Form	**Natural pellets**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (230 °C / 2.16 kg)	ASTM D1238	g/10 min	**6**
Density	ASTM D1505	g/cm³	**0.90**
MECHANICAL			
Flexural Modulus	ASTM D790	MPa	**1200**
Tensile Strength at Yield	ASTM D638	MPa	**23**
Tensile Elongation at Yield	ASTM D638	%	**5**
Izod Impact, notched (23 °C)	ASTM D256	J/m	**500**
Izod Impact, notched (−20 °C)	ASTM D256	J/m	**60**
THERMAL			
Vicat Softening Point (B/120)	ASTM D1525	°C	**145**
HDT (0.45 MPa)	ASTM D648	°C	**87**
Oven Ageing in Air (150 °C)	ASTM D3012	h	**360**

APPLICATIONS

- Paint Pails & Buckets
- Crates & Containers
- Battery Cases
- Luggage & Large Toys

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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+98 912 640 4020

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PHONE
+98 21 25903
+971 58 687 5544 (Dubai)

WHATSAPP
+98 912 640 4020
+98 912 859 5824

EMAIL
sales@rabinpolymer.com
Pasdaran, Tehran, Iran

WEB
en.rabinpolymer.com
/product/pp-440l/

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