

Moplen EPC40R

Polypropylene Copolymer

Shazand (Arak) Petrochemical Corporation

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Technical Data

Product Description

Moplen EPC40R is a heterophasic polypropylene copolymer designed for injection moulding battery cases & technical items. The product offers an excellent balance of mechanical properties & process ability & features an excellent long-term heat-stability. Articles moulded with Moplen EPC40R offer a good balance of stiffness & toughness, good surface properties & a very high resistance to chemicals & crazing.

Moplen EPC40R is largely used for automotive components. Battery cases, cooling water compensation reservoirs, brake fluid reservoirs, wash water reservoirs, dashboard supports, luggage compartment trims & door trim panels are typical applications. In the electro-technical industries, Moplen EPC40R is used for appliance, cables & wires (e.g. as slotted core element in fibre optic cables).

* Moplen EPC40R is suitable for food contact.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Moplen		
Availability	• Africa & Middle East		
Features	• Balanced Stiffness/Toughness • Copolymer • Crazing Resistant	• Food Contact Acceptable • Good Chemical Resistance • Good Heat Aging Resistance	• Good Processability • Good Surface Finish
Uses	• Appliances • Automotive Applications • Automotive Interior Parts	• Automotive Interior Trim • Automotive Under the Hood • Battery Cases	• Engineering Parts • Fiber Optic Cable • Wire & Cable Applications
Processing Method	• Injection Molding	• Wire & Cable Extrusion	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3920 psi	27.0 MPa	ASTM D638
Tensile Elongation (Yield)	12 %	12 %	ASTM D638
Flexural Modulus	196000 psi	1350 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-4°F (-20°C)	0.75 ft·lb/in	40 J/m	
73°F (23°C)	1.8 ft·lb/in	95 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	86	86	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	190 °F	88.0 °C	ASTM D648
Vicat Softening Temperature	302 °F	150 °C	ASTM D1525 ³
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Oven Aging (302°F (150°C))	1.4 month	1.4 month	ASTM D3012

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Loading 1 (10 N)



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Where to Buy

Supplier

Shazand (Arak) Petrochemical Corporation

Tehran, Iran

Telephone: +98-21-82120

Web: <http://www.arpc.ir/>

Distributor

Please contact the supplier to find a distributor for Moplen EPC40R

