

Technical Datasheet EPC40R

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1) 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.

2) Applications:

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 fiber optic cables).

Moplen EPC40R is suitable for food contact.

3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Melt Flow Rate (230 °C, 2.16kg)	ASTM D 1238	g/10min	7.0
Density	ASTM D 1505	g/cm ³	0.9
Flexural Modulus	ASTM D 790	MPa	1350
Tensile Strength at Yield	ASTM D 638	MPa	26
Tensile Elongation at Yield	ASTM D 638	%	12
Izod Impact Strength (notched) at 23 °C	ASTM D 256	J/m	95
Izod Impact Strength (notched) at -20 °C	ASTM D 256	J/m	40
Rockwell Hardness	ASTM D 785	R.Scale	86
Vicat softening point (10N)	ASTM D 1525	°C	150
H.D.T. (0.46 Mpa)	ASTM D 648	°C	88
Accelerated oven ageing in air at 150 °C	ASTM D 3012	hours	1000

* Typical values not to be construed as specifications.