Polypropylene hetrophasic copolymer

EPC40R

Typical properties	Test method (ASTM)	Unit	Value
MFR @230°C, 2.16 kg	D1238/L	gr/10min	7
Flexural Modulus	D790	MPa	1350
Notched Izod Impact@23°C	D256	J/m	95
Notched Izod Impact@-20°C	D256	J/m	40
Tensile Strength@Yield	D638	MPa	27
Elongation@Yield	D638	%	12
Vicat Softening Point,10N	D1525	°C	150
HDT(0.46N/mm²)	D648	°C	88
Rockwell Hardness	D785	R Scale	86
Oven Aging@150°C	D3012	Hours	1000

➢ Values shown are averages & are not to be considered as product specifications.

❖ Main application & Characteristics:

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.

ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

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EP-C 40 R

EP-C 40 R is a heterophasic polypropylene copolymer designed for injection moulding battery cases and technical items.

The product offers an excellent balance of mechanical properties and processability and features an excellent long-term heat-stability.

Articles moulded with EP-C 40 R offer a good balance of stiffness and toughness, good surface properties and a very high resistance to chemicals and crazing.

EP-C 40 R is largely used for automotive components.

Battery cases, cooling water compensation reservoirs, brake fluid reservoirs, wash water reservoirs, dashboard supports. luggage compartment trims and door trim panels are typical applications.

In the electro-technical industries. EP-C 40 R is used for appliances, cables and wires (e.g . as slotted core element in fibre optic cables).

PROPERTIES	METHOD (b)	UNIT	TYPICAL VALUE (a)
Physical properties			
Melt flow rate (230 °C, 2.16 kg)	ISO 1133	dg / min	6
Density	ISO 1183	g/cm³	0.9
Mechanical properties			
Flexural modulus	ISO 178	N/mm²	1300
Tensile strength yield	ISO R 527	N/mm²	26
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m²	15
-20°C	ISO 868		6.5
Hardness Shore D		points	68
Thermal properties			
Vicat softening point (9.8 N)	ISO 306/A	°C	152
H.D.T. (0.46 Mpa)	ISO 75/B	°C	95
Accelerated oven ageing in air (forced circulation) at 150 °C	ISO 4577	hours	360

EP-C 40 R is suitable for food contact.

a) Values shown are averages and are not to be considered as product specification These values may shift slightly as additional data are accumlsted.

b) ISO test methods are the lates under the societys current procedures.

All specimens are prepared by injection moulding.