

EP440N

Heterophasic copolymer

Description:

EP440N is an easy flow heterophasic polypropylene copolymer with improved mechanical properties balance. The product features high stiffness and outstanding impact strength. EP440N is specifically designed for injection molding applications. In comparison with conventional copolymers with the same MFR and the same rigidity, EP440N, exhibits 20 % higher toughness. EP440N is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include luggage, paint pails, buckets, containers, crates, batteries and large toys.

Typical Applications

- Packaging, automotive and consumer goods industries
- Luggage, paint pails, buckets, containers
- Crates, batteries and large toys

Features: High High impact strength and stiffness, Excellent processability

Suitable for: Injection molding

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	12	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1350	MPa	ASTM D790
Tensile Strength at Yield	25	MPa	ASTM D638
Tensile Elongation at Yield	10	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	120	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	55	J/m	ASTM D256
Shore hardness	66	----	ISO 868
Vicat softening point (10 N)	150	°C	ASTM D1525
H.D.T. (0.46 MPa)	95	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012

* Typical values; not to be considered as product specification.