

EP300K

Heterophasic Copolymer

Description:

EP300K is a low fluidity heterophasic copolymer, suitable for injection molding applications. This product exhibits very high impact even at low temperatures combined with good stiffness. EP300K is typically used in houseware items and in crates.

Typical Applications

- Housewares, seats, chair shells, toys, suitcases and small packaging items
- Injection molded caps and closures
- Medium sized containers, buckets, pails, transport crates and crates for cold storage
- Components for industrial applications
- Parts for the automotive industry (e.g. wheel arch liners, steering wheels and interior parts)
- Blow molded bottles and containers
- Thermoforming multilayer containers for dairy products

Features: High impact resistance, Good stiffness, Heterophasic copolymer

Suitable for: Injection molding and Thermoforming applications

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16kg)	4	g/10 min	ISO 1133
Density	0.9	g/cm ³	ISO 1183
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Strength at Yield	27	MPa	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Tensile Elongation at Yield	7	%	ISO 527-1, -2
Charpy impact strength (Notch A)			
	23 °C	10.5	kJ/m ²
	0 °C	5.5	kJ/m ²
	-20 °C	4	kJ/m ²
Ball indentation hardness (H 358/30)	53	MPa	ISO 2039-1
Vicat softening point /A50	150	°C	ISO 306
H.D.T. B (0.45 MPa)	75	°C	ISO 75B-1, -2

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