

EP300D

Heterophasic copolymer

Description:

EP310D is a high molecular weight, heterophasic polypropylene copolymer designed for extrusion applications where smooth processability and high mechanical properties are of the utmost importance. The processability of EP310D in extrusion is excellent. The final items show good stiffness and very high impact strength, even at -20 °C. EP310D is particularly suitable for the extrusion of films for adhesive tapes and films for lamination to paper and other resins. Extrusion blow molded containers for detergents, toiletries and foodstuffs and blow molded technical parts are among other important applications. EP310D is suitable for food contact.

Typical Applications

- Film for adhesive tapes
- Film for lamination to paper and other resins
- Extrusion blow molded containers for detergents, toiletries and foodstuff
- Blow molded technical parts are important applications
- Corrugated board, smooth and corrugated pipe

Features: High molecular weight, Good stiffness, Excellent processability, Very high impact strength

Suitable for: Extrusion blow molding, Blown film, Injection molding

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	0.8	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1150	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	15	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	650	J/m	ASTM D256
Izod Impact Strength (notched) at 0 °C	200	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	70	J/m	ASTM D256
Rockwell Hardness	80	R Scale	ASTM D785
Vicat softening point (10 N)	150	°C	ASTM D1525
H.D.T. (0.46 MPa)	85	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012
Haze (60 µm)	60	%	ASTM D1003
Gloss (60 µm)	12	----	ASTM D2457

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