RAYOMAND
Petroleum & Energy Industries

Polypropylene Technical Data Sheet

EP300D

Heterophasic copolymer

Description:

EP300D is a high molecular weight, heterophasic polypropylene copolymer designed for extrusion applications which require a balance of high stiffness and very good impact strength. EP300D offers excellent processability in extrusion. The final items show very good mechanical properties, even at temperatures down to -20 °C. Major Applications of EP300D are profiles, pipes, ducts for electrical distribution and automotive parts. This grade is also used for extrusion blow molding pigmented, glossy monolayer bottles for toiletries, detergents and foodstuffs. EP300D is also well suited for corrugated board and sheet for thermoforming. EP300D is suitable for food contact.

Typical Applications

- Profiles, pipes
- Ducts for electrical distribution and automotive parts
- Glossy monolayer bottles for toiletries, detergents and foodstuffs
- Corrugated board and sheet for thermoforming

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

Suitable for: Extrusion, Blow 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	1250	MPa	ASTM D790
Tensile Strength at Yield	30	MPa	ASTM D638
Tensile Elongation at Yield	13	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	600	J/m	ASTM D256
Izod Impact Strength (notched) at 0 °C	130	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	50	J/m	ASTM D256
Rockwell Hardness	90	R Scale	ASTM D785
Vicat softening point (10 N)	152	°C	ASTM D1525
H.D.T. (0.46 MPa)	90	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012

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

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