RAYOMAND
Petroleum & Energy Industries

Polypropylene Technical Data Sheet

EP548S

Heterophasic copolymer

Description:

EP548S is a high melt flow rate, nucleated heterophasic copolymer with antistatic agent used for thin-walled injection molding applications. The product features improved balance of mechanical properties. The use of EP548S allows high productivity due to the easy mold filling and short cycle times. In comparison with conventional copolymers with the same MFR and the same toughness, EP548S exhibits 15% higher rigidity. EP548S is suitable for food contact.

Typical Applications

- Thin-walled packaging
- Margarine tubs, yoghurt pots, pots for soft cheese, pudding and mayonnaise
- Caps, closures
- Flower pots, cool boxes
- Opaque food containers
- Housewares
- Sports, Leisure and toys

Features: Good impact strength, High stiffness, Easy mold filling and short cycle times, Excellent dimensional stability, Excellent organoleptic properties

Suitable for: Injection molding

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	44	g/10 min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	28	MPa	ASTM D638
Tensile Elongation at Yield	5	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	65	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	35	J/m	ASTM D256
Rockwell Hardness	100	R Scale	ASTM D785
Vicat softening point (10 N)	150	°C	ASTM D1525
H.D.T. (0.46 MPa)	112	°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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