Jampilen EP440G

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP440G" is a nucleated heterophasic copolymer especially developed for extrusion applications.
In comparison with standard polypropylene copolymers with the same fluidity, "Jampilen EP440G" exhibits higher stiffness, superior impact properties at room and sub-zero temperatures, very high dimensional stability and excellent creep and deforming resistance. The main applications of "Jampilen EP440G" are thermoforming, corrugated board and extrusion blow molding.

Processing Method:

Thermoforming
Extrusion blow molding

Features:

Very high impact resistance
High stiffness
Very high dimensional stability
Excellent creep and deforming resistance
Heterophasic copolymer

Typical Applications:

Corrugated board, panels and profiles, crates
Corrugated pipes for automotive and machine construction
Conduit pipes and fittings for electrical distribution and cable protection
Blow molded bottles and containers

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	1.3	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1450	MPa	ISO 527-1, -2
Tensile Strength at Yield	27	MPa	ISO 527-1, -2
Tensile Elongation at Yield	8	%	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	40	kJ/m^2	
0°C	9	kJ/m^2	
Rockwell Hardness	92	R-scale	ASTM D785
Hardness (Shore D)	68	----	ISO 868
Optical			
Gloss (60°)	65	----	DIN 67530

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