

Jampilen EP440G

Polypropylene Heterophasic Copolymer



Description

“Jampilen EP440G” is a nucleated heterophasic copolymer especially developed for extrusion applications. In comparison with the standard polypropylene copolymers with same fluidity, “Jampilen EP440G” exhibit 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

- Extrusion blow molding
- Thermoforming

Features

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

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	UNIT	TYPICAL VALUE	TEST METHOD
PHYSICAL			
MELT FLOW RATE (230°C, 2.16 KG)	g/10min	1.3	ISO 1133
DENSITY	g/cm ³	0.9	ISO 1183
MECHANICAL			
TENSILE MODULUS	MPa	1450	ISO 527-1, -2
TENSILE STRENGTH AT YIELD	MPa	27	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) AT 23 °C	KJ/m ²	40	ISO 179
CHARPY IMPACT STRENGTH (NOTCH A) AT 0 °C	KJ/m ²	9	ISO 179
R ^o CKWELL HARDNESS	R Scale	92	ASTM D785
HARDNESS (SHORE D)	-	68	ISO 868
OPTICAL			
GLOSS (60°)	-	65	DIN 67530

Producer: Jam Polypropylene Co. (JPPC)

IMPORTANT: The information and data presented herein are based on values from respective product manufacture. Therefore, no warranty or guarantee, expressed or implied, is made nor is any accountability accepted with respect to the use of such information and data. All mentioned data are typical values and not to be considered as legally binding specification.