

Heterophasic Copolymer

440G

General information

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

Application

Corrugated board, panels and profiles, crates

Corrugated pipes for automotive and machine construction

Conduit pipes and fittings for electrical distribution

Properties	Value	Unit	Test Method
MFI(230C°,2.1kg)	1.3	g/10min	ISO 1133
Density	0.9	g/cm	ISO 1183
Tensile Modulus	1450	MPa	ISO 527-1,-2
Tensile Strength@Yield	27	MPa	ISO 527-1,-2
Tensile Elongation@Yield	8	%	ISO 527-1,-2
Tensile Elongation@Break	>50	%	ISO 527-1,-2
Charpy impact strength(Notch A)		KJ/m	ISO 179
23c°	40		KJ/m
0c°	9		
Rockwell Hardness	92	R-scale	ASTM D785
Hardness (shore D)	68	...	ISO 868
Gloss	65	...	DIN 67530