

Moplen EP440G

PP COPO

LyondellBasell Industries

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	1.3	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	2.16	kg	-
Density, 73°F	900	kg/m³	ASTM D 792

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt Flow Index, MFI	1.3	g/10min	ISO 1133
MFI temperature	230	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1450	MPa	ISO 527
Yield stress	27	MPa	ISO 527
Yield strain	8	%	ISO 527
Strain at Break	>50	%	ISO 527
Notched Impact Strength (Charpy), +23°C	40	kJ/m²	ISO 179/1eA
Ball Indentation Hardness	48	MPa	ISO 2039-1
ASTM Data			
Tensile Strength at Yield	29.4	MPa	ASTM D 638
Elongation at Yield	9	%	ASTM D 638
Flexural Modulus	1324	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	736	J/m	ASTM D 256
Notched Impact Strength (Izod), Low-Temperature	78	J/m	ASTM D 256
Temperature	-20	°C	-

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (0.45 MPa)	78	°C	ISO 75-1/-2
Vicat softening temperature A	150	°C	ISO 306
Vicat softening temperature, 50°C/h 50N	66	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	900	kg/m³	ISO 1183

Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Blow Molding, Thermoforming

Features

Creep Resistance, Nucleated, Copolymer, Impact Copolymer

Special Characteristics

Impact modified