

# Moplen EP5000

Thermoplastic Polyolefin Elastomer

PolyMirae

## Message:

Moplen EP5000 is the reactor TPO manufactured by PMC under the license of BASELL using the Spheripol process.  
Moplen EP5000 is a non-filled copolymer for injection moulding with very high impact strength.  
This grade is natural, in pellet form. Typical application for Painted bumpers and wood composite.

General Information			
Features	Copolymer		
	Good Processability		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Paintable		
Uses	Automotive Bumper		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	20.6	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	5.5	%	ASTM D638
Flexural Modulus (Injection Molded)	1230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	98	J/m	
23°C, Injection Molded	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	100	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525

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