

# Moplen EP5015

Polypropylene Impact Copolymer

PolyMirae

Message:

Moplen EP5015 is a medium fluidity nucleated heterophasic copolymer suitable for injection molding applications. Moplen EP5015 exhibits an outstanding low temperature impact performance in combination with a good stiffness and an excellent processability. Moplen EP5015 is selected by customers for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer goods which require a high impact resistance at low temperatures. Moplen EP5015 resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Processability		
	High Impact Resistance		
	High Stiffness		
	Low Temperature Impact Resistance		
	Low Warpage		
	Nucleated		
Uses	Consumer Applications		
	Crates		
	Furniture		
	Luggage		
	Sporting Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	40		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	21.1	MPa	ASTM D638
Yield, 23°C	20.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	8.0	%	ASTM D638

Yield, 23°C	6.0	%	ISO 527-2/50
Flexural Modulus			
--	1080	MPa	ASTM D790
--	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.5	kJ/m <sup>2</sup>	
0°C	8.0	kJ/m <sup>2</sup>	
23°C	15	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		
0°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	88	J/m	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	85.0	°C	ASTM D648
0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	125	°C	ASTM D1525
--	130	°C	ISO 306/A50

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