

Moplen EP341K

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP341K is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP341K is a nucleated heterophasic copolymer grade suitable for injection molding and thermoforming applications. It exhibits an outstanding low temperature impact performance and good stiffness combined with good processability. Moplen EP341K is selected by custoemrs for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which subjected to impact/ or low temperature. This grade is UV stabilized.

General Information	
Additive	Nucleating Agent UV Stabilizer
Features	Block Copolymer Good Processability Good Stiffness Low Temperature Impact Resistance Nucleated
Uses	Consumer Applications Crates Luggage Sporting Goods Toys
Forms	Pellets
Processing Method	Injection Molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	23.5	MPa	ASTM D638
Yield, 23°C	20.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	7.0	%	ASTM D638

Yield, 23°C	4.5	%	ISO 527-2/50
Flexural Modulus			
--	981	MPa	ASTM D790
--	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	7.0	kJ/m ²	
0°C	13	kJ/m ²	
23°C	66	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	230	kJ/m ²	
0°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	110	J/m	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B

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