

Koylene CP MI3535

Polypropylene Impact Copolymer

Reliance Industries Limited

Message:

Koylene-CP grade MI3535 is a polypropylene impact copolymer, manufactured by copolymerising propylene with ethylene. The ethylene - propylene elastomeric phase in the PP impact copolymer improves the impact strength of the products which is retained even at sub-zero temperatures. Koylene-CP grade MI3535 is specially formulated for high speed extrusion compression moulding process. The grade possesses good toughness and the articles moulded can withstand a continuous service temperature of up to 90oC.

FOOD CONTACT APPLICATIONS: This grade meets with the requirements of Indian Standard IS: 10910 on "Specifications for Polypropylene and its copolymers for its safe use in contact with foodstuffs, pharmaceuticals and drinking water". The grade also complies with FDA regulation: CFR TITLE 21 - 177.1520, on olefin polymers.

General Information			
Features	Impact copolymer		
	Low temperature impact resistance		
	Good toughness		
	Compliance of Food Exposure		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	30.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus ³ (3.20 mm, Injection Molded)	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm, Injection Molded)	120	J/m	ASTM D256
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	220	°C	
Cylinder Zone 2 Temp.	240	°C	
Cylinder Zone 3 Temp.	250	°C	
Cylinder Zone 4 Temp.	250	°C	
Extrusion instructions			
Nozzle Temperature: 250°C Mold Temperature: as per process requirements			
NOTE			

1.	Type 1
2.	Type 1
3.	Type 1

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