Moplen RP5007

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP5007 is a very high fluidity random copolymer. It is suitable for injection moulding applications.
The product is nucleated and contains anti static additive.
Moplen RP5007 meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.
This is a developmental grade, changes in formulation and specification are possible. The information is valid at the time of writing. We suggest customers to check and confirm with us the most updated statements from time to time.

General Information			
Additive	Antistatic Nucleating Agent		
Features	Antistatic Food Contact Acceptable Good Processability High Clarity High Flow Medium Gloss Nucleated Random Copolymer		
Uses	Containers Household Goods Media Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
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)	75	g/10 min	ASTM D1238, ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	93		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - Secant (23°C)	1200	MPa	ISO 527-2/1
Tensile Strength			
Yield	28.4	MPa	ASTM D638
Yield, 23°C	30.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	10	%	ASTM D638
Yield, 23°C	12	%	ISO 527-2/50

Flexural Modulus	1180	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.0	kJ/m²	
23°C	3.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	90	kJ/m²	
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	20	J/m	
23°C	44	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	91.0	°C	ASTM D648
0.45 MPa, Unannealed	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A50

Recommended distributors for this material

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