SABIC® PP 612MK46

PP block copolymer for Injection moulding

Description:

This grade is especially developed for pails and containers. Special characteristics of this grade are a high crystalisation temperature, very high flow in combination with medium impact performance and neutral taste & odor performance. This enables outstanding processability, very easy mould filling and short cycle times. SABIC® PP 612MK46 is formulated with a combined processing and antistatic additive package. It is also available in a general purpose additive package.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

Typical values

Properties		Unit (Si)	Values	Test methods
Polymer properties				
Melt flow rate (MFR)				ISO 1133
at 230 °C and 2.16 kg		dg/min	**33**	
Density		kg/m³	**905**	ISO 1183
Formulation				
Anti static agent		-	**Yes**	-
Nucleating agent		-	**Yes**	-
Mechanical properties				
Tensile test				ISO 527-2 1A
stress at yield	1)	MPa	**25**	
strain at yield	1)	%	**4**	
tensile modulus	2)	MPa	**1400**	
Izod impact notched				ISO 180/1A
at 23 °C		kJ/m²	**9**	
at 0 °C		kJ/m²	**7**	
at -20 °C		kJ/m²	**5**	
Charpy impact notched				ISO 179/1eA
at 23 °C		kJ/m²	**10**	
at 0 °C		kJ/m²	**8**	
at -20 °C		kJ/m²	**6**	
Hardness Shore D		-	**62**	ISO 868
Thermal properties				
Heat deflection temperature	3)			ISO 75
at 1.80 MPa (HDT/A)		°C	**55**	
at 0.45 MPa (HDT/B)		°C	**90**	
Vicat softening temperature	4)			ISO 306
at 10 N (VST/A)		°C	**149**	
at 50 N (VST/B)		°C	**76**	

1) Speed of testing: 50 mm/min
2) Speed of testing: 1 mm/min
3) Flat wise (testbar 80*10*4mm)
4) Temperature rate: 120°C/h