



SABIC® PP PHC27

PP block copolymer for Injection moulding

Description:

This grade combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. Due to its narrow molecular weight distribution and very low tendency to warp, it is highly suitable for injection moulding of crates, boxes, suitcase shells and automotive parts.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC-europe.com>

Typical values

Revision 20080327

Properties	Unit (Si)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	g/10 min	14	ISO 1133
Density	kg/m ³	905	ISO 1183
Mechanical properties			
Tensile test			ISO 527
stress at yield	MPa	22	ASTM D 790
stress at break	MPa	19	
strain at break	%	600	
Flexural test			ISO 180/4A
Flexural modulus	MPa	1200	ISO 179
Izod impact notched			
at 23 °C	kJ/m ²	No Break	
at 0 °C	kJ/m ²	9.0	ISO 868
at -20 °C	kJ/m ²	6.0	
Charpy impact notched			
at 23 °C	kJ/m ²	31	ISO 306/A
at 0 °C	kJ/m ²	12.5	
at -20 °C	kJ/m ²	7.0	
Hardness Shore D	-	66	ISO 306/B
Thermal properties			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	°C	52	ISO 75/A
at 0.45 MPa (HDT/B)	°C	87	ISO 75/B
Vicat softening temperature			
at 10 N (VST/A)	°C	140	ISO 306/A
at 50 N (VST/B)	°C	57	ISO 306/B

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