



SABIC[®] PP 56M10

PP IMPACT COPOLYMER

DESCRIPTION

SABIC[®] PP 56M10 has high impact resistance, even at low temperatures, and high stiffness. It is typically used in a variety of applications e.g. containers and crates & boxes. It is also used in automotive components, like for example battery cases.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	6.2	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
FORMULATION			
Anti static agent	☐	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
strain at yield	5	%	ISO 527-2 1A
tensile modulus ⁽¹⁾	1400	MPa	ISO 527-2 1A
stress at yield ⁽²⁾	27	MPa	ISO 527-2 1A
Izod impact notched			
at -20 °C	5	kJ/m ²	ISO 180/1A
at 23 °C	11	kJ/m ²	ISO 180/1A
at 0 °C	7	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	8	kJ/m ²	ISO 179/1eA
at 23 °C	12.5	kJ/m ²	ISO 179/1eA
at -20 °C	6	kJ/m ²	ISO 179/1eA
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	85	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	78	°C	ISO 306
at 10 N (VST/A)	152	°C	ISO 306