SABIC® PP PHC28

PP IMPACT COPOLYMER

DESCRIPTION

SABIC® PP PHC28 is the new development of SABICs very high impact PHC series. The grade combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. By its design it is offering potential of cycle time reduction, of down gauging and easiness of processing. PHC28 is typically used for injection moulding of applications requiring high impact from low to thick wall thickness such as suitcase shells, electronic equipment and automotive parts. SABIC® PP PHC28 is putting the combined stiffness and flow of very high impact copolymers to a next level.

Health, Safety and Food Contact regulations:Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site http://www.SABIC.com. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20191230

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	20	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
UV stabilized	☐	-	-
Anti static agent	☐	-	-
Nucleating agent	☑	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield	21	MPa	ISO 527-2 1A
tensile modulus (1)	1100	MPa	ISO 527-2 1A
strain at yield (2)	6	%	ISO 527-2 1A
Izod impact notched			
at -20 °C	7	kJ/m²	ISO 180/1A
at 0 °C	12	kJ/m²	ISO 180/1A
Izod impact notched			
at 23 °C	No Break	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	60	kJ/m²	ISO 179/1eA
at -20 °C	8	kJ/m²	ISO 179/1eA
at 0 °C	13	kJ/m²	ISO 179/1eA

(1) Speed of testing: 1 mm/min
(2) Speed of testing: 50 mm/min

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

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