

SABIC® PP 49MCX40

PROVISIONAL DATA SHEET POLYPROPYLENE IMPACT COPOLYMER

DESCRIPTION

SABIC® PP 49MCX40 is a high crystalline impact copolymer with outstanding mechanical properties. The product features an easy processability, an excellent combination of stiffness and impact strength and good gloss. SABIC® PP 49MCX40 is a single component solution for high stiffness injection molding applications that is typically used by customers as replacement of ABS and HIPS in small appliances. This grade is also used by customers in a wide range of appliances, such as housings for electrical appliances, furniture and technical components.

TYPICAL APPLICATIONS

SABIC® PP 49MCX40 can be used for Furniture; Replacement of ABS and HIPS in Small Appliances, Housing for Electrical Appliances.

TYPICAL PROPERTY VALUES

Revision 20230511

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	18	g/10 min	ISO 1133
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Stress at Yield	28	MPa	ISO 527-1/-2
Tensile modulus	1550	MPa	ISO 527
Charpy Impact Strength ⁽²⁾			
(23°C, Type 1, Edgewise, Notched A)	4.5	kJ/m ²	ISO 179
(-20°C, Type 1, Edgewise, Notched A)	2.5	kJ/m ²	ISO 179

(1) Typical values, not to be construed as specific limits.

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for SABIC® PP 49MCX40 :-

Barrel temperature range: 200 - 250°C.

Mold temperature: normally 15 - 40°C, up to 65°C for thick parts.

Mold shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions.

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

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