

SABIC® PP FPC75

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

As part of SABIC® FLOWPACT polypropylene portfolio, FPC75 grade delivers high top-load performance with a very high stiffness - impact balance. This high flow phthalate free grade is nucleated, with good organoleptic and antistatic properties.

TYPICAL APPLICATIONS

SABIC® FLOWPACT FPC75 polymer can serve a wide range of potential end-uses in rigid packaging for dairy products, frozen, chilled and ambient food, household chemicals, paints and housewares. It may be used for hot filling applications.

TYPICAL PROPERTY VALUES

Revision 20220321

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 230°C & 2.16 kg load	70	g/10 min	ASTM D1238
Density			
@ 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES ⁽²⁾			
Tensile strength			
@ Yield	25	MPa	ASTM D638
Tensile Elongation			
@ Yield	5	%	ASTM D638
Flexural Modulus (1% Secant)	1350	MPa	ASTM D790 A
Notched Izod Impact Strength at 23°C	53	J/m	ASTM D256
Notched Izod Impact Strength at -20°C	32	J/m	ASTM D256
Rockwell Hardness, R-Scale	80	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point	149	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	105	°C	ASTM D648

(1) Typical values; not to be construed as specification limits

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for SABIC® FLOWPACT FPC75 are

Barrel temperature range: 200 - 250°C.

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

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

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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