

# 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
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
@ 230°C & 2.16 kg load	70	g/10 min	ASTM D1238
<b>Density</b>			
@ 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile strength</b>			
@ Yield	25	MPa	ASTM D638
<b>Tensile Elongation</b>			
@ Yield	5	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1350	MPa	ASTM D790 A
<b>Notched Izod Impact Strength at 23°C</b>	53	J/m	ASTM D256
<b>Notched Izod Impact Strength at -20°C</b>	32	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	80	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	149	°C	ASTM D1525
<b>Heat Deflection Temperature at 455kPa</b>	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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