



## SABIC® PP 4935

### PP random for Automotive injection moulding

#### Description:

SABIC® PP 4935 is a random copolymer with a very high molecular weight. This grade has a special stabilization package. The stabilization and particular molecular structure make it suited for use in extremely demanding applications like coolant expansion vessels in cars. The grade can be processed by injection molding. The material has a medium impact, is semi-transparent and has a good stress-whitening (low blushing) characteristic.

IMDS ID: 80775790

#### Typical values

Revision 20130614

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	g/10 min	<b>0.3</b>	ASTM D 1238
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ASTM D 792 SABIC method
<b>Mould shrinkage</b> <sup>1)</sup> 24 hours after injection moulding	%	<b>1.9</b>	
<b>Formulation</b>			
<b>Clarified</b>	-	<b>No</b>	-
<b>Anti static agent</b>	-	<b>No</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			ASTM D 638
stress at yield <sup>2)</sup>	MPa	<b>22</b>	
strain at yield <sup>2)</sup>	%	<b>6</b>	
secant modulus at 1% elongation <sup>3)</sup>	MPa	<b>1350</b>	
<b>Izod impact notched</b>			ASTM D 256A
at 23 °C	J/m	<b>400</b>	
at 0 °C	J/m	<b>25</b>	
at -20 °C	J/m	<b>20</b>	
<b>Thermal properties</b>			
<b>Vicat softening temperature</b> <sup>4)</sup>			ASTM D 1525
at 10 N (VST/A)	°C	<b>145</b>	
at 50 N (VST/B)	°C	<b>86</b>	

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min

3) Speed of testing: 5 mm/min

4) Temperature rate: 120°C/h



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**Quality:**

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

**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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