



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 20140109

Properties	Unit (SI)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	dg/min	0.3	ISO 1133
Density	kg/m ³	905	ISO 1183
Mould shrinkage ¹⁾ 24 hours after injection moulding	%	1.9	SABIC method
Formulation			
Anti static agent	-	No	-
Nucleating agent	-	No	-
Mechanical properties			
Tensile test			ISO 527-2 1A
stress at yield ²⁾	MPa	35	
strain at yield ²⁾	%	12	
tensile modulus ³⁾	MPa	1300	
Izod impact notched			ISO 180/1A
at 23 °C	kJ/m ²	12	
at 0 °C	kJ/m ²	2.5	
at -20 °C	kJ/m ²	1.5	
Charpy impact notched			ISO 179/1eA
at 23 °C	kJ/m ²	6	
at 0 °C	kJ/m ²	2.5	
Hardness Shore D	-	66	ISO 868
Thermal properties			
Vicat softening temperature ⁴⁾			ISO 306
at 10 N (VST/A)	°C	145	
at 50 N (VST/B)	°C	86	

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min

3) Speed of testing: 1 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.

Disclaimer. The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

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