

SABIC® PP 4935

PP RANDOM

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 PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	0.3	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D 1505
Mould shrinkage ⁽¹⁾			
24 hours after injection moulding	1.9	%	SABIC method
FORMULATION			
Anti static agent	<input type="checkbox"/>	-	-
Nucleating agent	<input type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽²⁾	1300	MPa	ISO 527-2 1A
strain at yield ⁽³⁾	12	%	ISO 527-2 1A
stress at yield	35	MPa	ISO 527-2 1A
Izod impact notched			
at -20 °C	1.5	kJ/m ²	ISO 180/1A
at 23 °C	12	kJ/m ²	ISO 180/1A
at 0 °C	2.5	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	2.5	kJ/m ²	ISO 179/1eA
at 23 °C	6	kJ/m ²	ISO 179/1eA
Hardness Shore D	66	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	145	°C	ISO 306
at 50 N (VST/B)	86	°C	ISO 306

(1) All measurements on injection molded samples.

(2) Speed of testing: 1 mm/min

(3) Speed of testing: 50 mm/min

(4) Temperature rate: 120°C/h

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

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.