

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	0.3	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
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