

Generic PP, Unspecified - Unspecified

Polypropylene

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PP, Unspecified - Unspecified
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement		Filler	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.908 to 1.20	g/cm ³	ASTM D792
23°C	0.930 to 1.08	g/cm ³	ISO 1183
--	1140	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	3.6 to 20	g/10 min	ASTM D1238
230°C/2.16 kg	8.3 to 17	g/10 min	ISO 1133
Melt volume-flow rate	5.28	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			
Flow : 23°C	0.30 to 1.9	%	ASTM D955
23°C	1.1 to 1.4	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.039 to 0.063	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	94 to 120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	4060	MPa	ISO 527-2 ³
Tensile Strength			
Yield, 23°C	20.2 to 70.0	MPa	ASTM D638
Yield	53.1	MPa	ISO 527-2 ⁴
23°C	19.6 to 29.1	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	7.9 to 9.0	%	ISO 527-2
Yield	2.6	%	ISO 527-2 ⁵
Break, 23°C	1.0 to 200	%	ASTM D638
Break, 23°C	0.80 to 50	%	ISO 527-2
Nominal strain at break	3.0 to 50	%	ISO 527-2 ⁶
Flexural Modulus			
23°C	900 to 5240	MPa	ASTM D790
23°C	1100 to 2570	MPa	ISO 178
Flexural Strength			

23°C	30.2 to 36.3	MPa	ASTM D790
23°C	38.5 to 47.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.9 to 9.2	kJ/m ²	ISO 179
Charpy impact strength (23°C)	34.5	kJ/m ²	ISO 179/1eU ⁷
Notched Izod Impact (23°C)	27 to 83	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	98.1 to 160	°C	ASTM D648
0.45 MPa, Unannealed	90.0 to 144	°C	ISO 75-2/B
1.8 MPa, Unannealed	47.0 to 75.1	°C	ASTM D648
1.8 MPa, Unannealed	45.0 to 140	°C	ISO 75-2/A
1.8 MPa	147	°C	ISO 75-2 ⁸
Vicat Softening Temperature			
--	54.0 to 157	°C	ISO 306
50°C/h, B (50N)	113	°C	ISO 306 ⁹
CLTE - Flow	3.4E-5 to 3.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.1E+2 to 1.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	650 to 750	°C	IEC 60695-2-13
NOTE			
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
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4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

9.

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