

Generic PP Homopolymer - Unspecified

Polypropylene Homopolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement		Filler	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.03 - 1.22	g/cm ³	ASTM D792
23°C	0.780 - 2.80	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 - 11	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	0.20 - 0.92	%	ASTM D955
23°C	1.1 - 1.7	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	90 - 105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1000 - 5500	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	24.5 - 88.9	MPa	ASTM D638
Fracture, 23°C	14.8 - 22.0	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	3.0 - 10	%	ASTM D638
Fracture, 23°C	1.0 - 100	%	ISO 527-2
Flexural Modulus (23°C)	3420 - 7100	MPa	ASTM D790
Flexural Strength (23°C)	33.8 - 116	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.0 - 6.1	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	4.7 - 20	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	25 - 82	J/m	ASTM D256
Unnotched Izod Impact (23°C)	300 - 340	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	155 - 162	°C	ASTM D648
0.45 MPa, not annealed	55.0 - 131	°C	ISO 75-2/B
1.8 MPa, not annealed	40.0 - 107	°C	ISO 75-2/A
Vicat Softening Temperature	50.0 - 161	°C	ISO 306

Injection	Nominal Value	Unit
Drying Temperature	85.0 - 85.1	°C
Processing (Melt) Temp	204 - 240	°C
Mold Temperature	32.3 - 33.0	°C
Injection instructions		

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