

Ravago Compounds PP-8162

Polypropylene Homopolymer

Ravago Manufacturing Americas, LLC

Message:

PP-8162 is an injection molding grade polypropylene compound designed for outdoor applications. It combines excellent moldability with outstanding resistance to weathering and sunlight.

General Information			
Filler / Reinforcement	Calcium carbonate filler, 20% filler by weight		
Features	Sunlight Resistant		
	Homopolymer		
	Good formability		
	Good weather resistance		
Uses	Outdoor application		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	17.2	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	10	%	ASTM D638
Flexural Modulus - Tangent ¹ (23°C)	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Dart Drop Impact ²	14.7	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	101	°C	ASTM D648
1.8 MPa, not annealed	57.2	°C	ASTM D648
CLTE - Flow	7.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate	17	mm/min	ASTM D635
Self Ignition Temperature	427	°C	ASTM D1929
Smoke Density	6.0	%	ASTM D2843
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 93.3	°C	
Drying Time	0.0 - 8.0	hr	

Rear Temperature	177 - 216	°C
Middle Temperature	177 - 216	°C
Front Temperature	171 - 216	°C
Nozzle Temperature	182 - 216	°C
Mold Temperature	26.7 - 60.0	°C
Back Pressure	0.00 - 0.689	MPa
Screw Speed	50 - 150	rpm

Injection instructions

Hot Runner Temperature (if applicable): 450 to 480°F

NOTE

1. 1.3 mm/min
2. Geometry GC

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