

RheTech Polypropylene HP514-447UV

Polypropylene Copolymer

RheTech, Inc.

Message:

14% Talc Reinforced, High Performance, UV Stabilized, Polypropylene Copolymer, 9902 Very Dark Grey.

General Information			
Filler / Reinforcement	Talc filler, 14% filler by weight		
Additive	UV stabilizer		
Features	Copolymer		
	Good UV resistance		
Appearance	Grey		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	30.3	MPa	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Dart Drop Impact	2.82	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	120	°C	ASTM D648
1.8 MPa, not annealed	61.1	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	65.6 - 82.2	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	193 - 221	°C	
Middle Temperature	199 - 227	°C	
Front Temperature	204 - 232	°C	
Nozzle Temperature	210 - 221	°C	
Mold Temperature	26.7 - 48.9	°C	
Injection Pressure	2.76 - 10.3	MPa	

Holding Pressure	2.07 - 8.27	MPa
Back Pressure	0.345 - 1.03	MPa
Injection instructions		

Injection Speed: Variable - Application Dependant Screw RPM: Recovery 3 seconds before mold opens Cycle Time: Wall Thickness Dependant

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