

# RheTech Thermoplastic Polyolefin FT3080-01

Polyolefin

RheTech, Inc.

Message:

Thermoplastic Polyolefin, 110K Flexural Modulus, UV Stabilized, YZ9A Black.

General Information			
Filler / Reinforcement	Filler, 4.0% filler by weight		
Additive	UV stabilizer		
Features	Good UV resistance		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm <sup>3</sup>	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)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	17.9	MPa	ASTM D638
Flexural Modulus	758	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	800	J/m	ASTM D256
Dart Drop Impact	18.1	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	76.7	°C	ASTM D648
1.8 MPa, not annealed	48.9	°C	ASTM D648
Injection	Nominal Value	Unit	Test Method
Drying Temperature	65.6 - 82.2	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	188 - 216	°C	
Middle Temperature	193 - 221	°C	
Front Temperature	199 - 227	°C	
Nozzle Temperature	204 - 216	°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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## Recommended distributors for this material

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