

Formolene® 5140H

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Formolene 5140H is a polypropylene homopolymer with fast cycle time and easy mold release. It is designed for compression molded caps and closure applications. It contains a unique combination of stabilizers, nucleators and antistats that provide an excellent balance of stiffness and impact strength. Formolene 5140 H offers advantages in both processing and physical properties over current polypropylenes used for compression molded caps and closures.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Homopolymer		
	Nucleated		
Uses	Caps		
	Closures		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.1	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	37.2	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1690	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	37	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	117	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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