

Formolene® 6145O

Polypropylene Impact Copolymer

Formosa Plastics Corporation, U.S.A.

Message:

Impact Copolymer for Appliance Applications

Formolene® 6145O is a medium impact copolymer of polypropylene characterized by its easy mold flow, physical property balance and excellent dimensional stability. It is designed for consumer products and appliance applications requiring long-term heat-aging resistance and flexural endurance. It has additional

stiffness for good service performance

Formolene® 6145O has earned a UL continuous service rating of 110°C with recognition for typical use in laundry equipment.

This material is free of animal-derived content.

General Information			
Features	Good dimensional stability Rigid, good Impact copolymer Impact resistance, good Good liquidity Good heat aging resistance Good flexibility Durability Good demoulding performance No kinetic components		
Uses	Electrical appliances		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection 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)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	29.0	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	96	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	106	°C	ASTM D648

1.8 MPa, unannealed, injection molded	59.0	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

