

# Elastoprene HS5150D NAT

Thermoplastic Polyolefin Elastomer

KMI Group, Inc.

Message:

Elastoprene HS5150D is a flexible TPE/TPO hybrid intended for injection molding applications, offering good processibility, easy coloring, good heat resistance, improved flexural fatigue and FDA compliance.

Applications:

Food containers, food closures, storage containers, general industrial and consumer goods applications.

General Information			
Features	Workability, good		
	Good flexibility		
	Good coloring		
	Heat resistance, medium		
	Compliance of Food Exposure		
Uses	Industrial application		
	Container		
	Food container		
	Shell		
	Consumer goods application field		
Agency Ratings	FDA not rated		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D, 10 seconds, extruded	48		ASTM D2240
Shore D, 10 seconds, injection molding	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.45	MPa	ASTM D412
Tensile Strength (Break)	15.3	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	74.0	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	52	%	ASTM D395B
70°C, 22 hr	71	%	ASTM D395B

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-50.0	°C	ASTM D746
Injection	Nominal Value	Unit	
Rear Temperature	171 - 199	°C	
Middle Temperature	177 - 210	°C	
Front Temperature	191 - 221	°C	
Nozzle Temperature	199 - 229	°C	
Processing (Melt) Temp	199 - 221	°C	
Mold Temperature	10 - 49	°C	
Injection Pressure	5.17 - 8.96	MPa	
Injection Rate	Fast		
Screw Speed	50 - 200	rpm	
Clamp Tonnage	2.8 - 4.8	kN/cm <sup>2</sup>	
Cushion	5.08 - 12.7	mm	

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