

# Elastocon® SMR1555

Thermoplastic Polyolefin Elastomer

Elastocon TPE Technologies

## Message:

Elastocon® SMR1555 thermoplastic polyolefin elastomer has been developed for applications that require low temperature impact resistance and a high gloss scratch and mar resistant surface finish. Elastocon® SMR1555 is well suited for consumer goods and industrial applications requiring U.V. stability and excellent low temperature stability. Elastocon® SMR1555 provides a non-bloom surface.

General Information			
Features	No frost		
	Good UV resistance		
	Low temperature impact resistance		
	Scratch resistance		
	Thermal stability, good		
Uses	Industrial application		
	Consumer goods application field		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	13.6	MPa	ASTM D412
Tensile Strength (Yield)	16.8	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (-30°C, Ductile)	38.6	J	ASTM D3763
Injection	Nominal Value	Unit	
Rear Temperature	200 - 225	°C	
Front Temperature	200 - 230	°C	
Nozzle Temperature	200 - 235	°C	
Mold Temperature	21.0 - 49.0	°C	
Injection Rate	Fast		
Back Pressure	0.689 - 1.38	MPa	
Extrusion	Nominal Value	Unit	

Hopper Temperature	< 79.0	°C
Cylinder Zone 1 Temp.	191 - 232	°C
Cylinder Zone 2 Temp.	191 - 232	°C
Cylinder Zone 3 Temp.	191 - 232	°C
Cylinder Zone 4 Temp.	191 - 232	°C
Cylinder Zone 5 Temp.	191 - 232	°C
Die Temperature	232	°C

#### Extrusion instructions

Compression ratio: 2.5 to 3.0

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