

# Tectron H2299

Thermoplastic Vulcanizate

TECTRON Systems Pte Ltd

## Message:

A thermoplastic vulcanizate with excellent heat and low temperature resistance. It can withstand temperature ranging from -50°C to 135°C. Tectron H series are available in concentrate and compound with hardness ranging from 45A - 90A. The concentrate is designed for compounders to obtain TPVs with the addition of PP and other chemicals. It can also be used as an additive to enhance the overall properties of various polymers. It can be processed by conventional plastics machines i.e. injection molding and extrusion.

General Information			
Features	Heat resistance, high		
Appearance	Yellow		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (A-Scale)	90		ASTM D785
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.00	MPa	ASTM D412
Tensile Strength (Yield)	13.5	MPa	ASTM D412
Tensile Elongation (Break)	1400	%	ASTM D412
Compression Set			ASTM D395
25°C, 22 hr	28	%	ASTM D395
100°C, 22 hr	59	%	ASTM D395
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	140 - 150	°C	
Middle Temperature	160 - 170	°C	
Front Temperature	170 - 190	°C	
Nozzle Temperature	190 - 210	°C	
Mold Temperature	30.0 - 40.0	°C	
Back Pressure	0.00 - 0.0800	MPa	
Screw Speed	35 - 110	rpm	
Injection instructions			

Injection Speed: 20 to 80 mm/s1st Stage- Boost Pressure: 1350 to 6000Hold Time (thick part): 2 to 15 sec

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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

