TAROPRENE® 1 A55 M1N

Thermoplastic Vulcanizate

Taro Plast S.p.A.

Message:

Thermoplastic Elastomer Vulcanized. This TPE-V compound combines the typical performance of a vulcanized elastomer with the easy processing of a thermoplastic compound. Taroprene is totally recyclable and it can be produced in standard grades and in tailor-made grades. Available in natural, black and colored grade.

Features Good Processability Recyclable Material	General Information			
Black Colors Available Natural Color Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0.960 g/cm³ ISO 1183 Meth Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ 2.00 MPa ASTM D412 100% Strain 2.00 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412	Features	Good Processability		
Colors Available Natural Color Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0.960 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ ASTM D412 ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Tensile Strength 18.0 kN/m ASTM D998 70°C, 22 hr 31 % ASTM D998 70°C, 22 hr 35 % ASTM D995 Injection Nominal Value Unit Unit Unity of Calculation C C Processing (Melt) Temp		Recyclable Material		
Colors Available Natural Color Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0.960 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ ASTM D412 ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Tensile Strength 18.0 kN/m ASTM D998 70°C, 22 hr 31 % ASTM D998 70°C, 22 hr 35 % ASTM D995 Injection Nominal Value Unit Unit Unity of Calculation C C Processing (Melt) Temp				
Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0.960 g/cm² ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ 2.00 MPa ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Ters Strength 18.0 kN/m ASTM D452 Compression Set √ ASTM D4598 70°C, 22 hr 31 % ASTM D4595 100°C, 22 hr 35 % Test D4505 100°C, 22 hr 35 % Test D4505 100°C, 22 hr 35 % Test D4505	Appearance	Black		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0.960 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ 2.00 MPa ASTM D412 1 00% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Tensile Strength 18.0 kN/m ASTM D624 Compression Set — ASTM D958 70°C, 22 hr 31 % ASTM D3958 10°C, 22 hr 35 % Tensile Stression Set — Tensile Stression Set — Tensile Stression Set — Tensile Stression Set — Tensile Stression Set		Colors Available		
Physical Nominal Value Unit Test Method Density 0.960 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress 1 ASTM D412 ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tensile Elongation 3 (Break) 450 KN/m ASTM D412 Tensile Strength 18.0 KN/m ASTM D958 70°C, 22 hr 31 % ASTM D452 Injection Nominal Value Unit Drying Temperature 80.0 "C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 "C		Natural Color		
Density 0.960 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A. 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ ASTM D412 ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set 4 ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C	Processing Method	Injection Molding		
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) 2.0 g/10 min ISO 1133 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ ASTM D412 ASTM D412 100% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D412 Compression Set KN/m ASTM D4958 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C	Physical	Nominal Value	Unit	Test Method
Hardness Nominal Value Unit Test Method Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress ¹ ASTM D412 ASTM D412 100% Strain 2.00 MPa Fensile Strength 300% Strain 3.80 MPa ASTM D412 Tensile Strength ² (Break) 4.90 MPa ASTM D412 Tensile Elongation ³ (Break) 450 kN/m ASTM D412 Compression Set KN/m ASTM D4958 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Density	0.960	g/cm³	ISO 1183
Shore Hardness (Shore A, 3 sec) 55 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress 1 ASTM D412 100% Strain 2.00 MPa 300% Strain 3.80 MPa Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set 4STM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C	Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.0	g/10 min	ISO 1133
Elastomers Nominal Value Unit Test Method Tensile Stress 1 ASTM D412 100% Strain 2.00 MPa 300% Strain 3.80 MPa Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set 4STM D395B ASTM D395B 70°C, 22 hr 31 % ASTM D395B Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE **C	Hardness	Nominal Value	Unit	Test Method
Tensile Stress 1 ASTM D412 100% Strain 2.00 MPa 300% Strain 3.80 MPa Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE **C	Shore Hardness (Shore A, 3 sec)	55		ISO 868
100% Strain 2.00 MPa 300% Strain 3.80 MPa Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Elastomers	Nominal Value	Unit	Test Method
300% Strain 3.80 MPa Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Tensile Stress ¹			ASTM D412
Tensile Strength 2 (Break) 4.90 MPa ASTM D412 Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	100% Strain	2.00	MPa	
Tensile Elongation 3 (Break) 450 % ASTM D412 Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D3958 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE **	300% Strain	3.80	MPa	
Tear Strength 18.0 kN/m ASTM D624 Compression Set ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Tensile Strength ² (Break)	4.90	MPa	ASTM D412
ASTM D395B 70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE NOTE	Tensile Elongation ³ (Break)	450	%	ASTM D412
70°C, 22 hr 31 % 100°C, 22 hr 35 % Injection Nominal Value Unit Drying Temperature 80.0 °C Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Tear Strength	18.0	kN/m	ASTM D624
100°C, 22 hr35%InjectionNominal ValueUnitDrying Temperature80.0°CDrying Time2.0hrProcessing (Melt) Temp160 to 225°CNOTE	Compression Set			ASTM D395B
InjectionNominal ValueUnitDrying Temperature80.0°CDrying Time2.0hrProcessing (Melt) Temp160 to 225°CNOTE	70°C, 22 hr	31	%	
Drying Temperature80.0°CDrying Time2.0hrProcessing (Melt) Temp160 to 225°CNOTE	100°C, 22 hr	35	%	
Drying Time 2.0 hr Processing (Melt) Temp 160 to 225 °C NOTE	Injection	Nominal Value	Unit	
Processing (Melt) Temp 160 to 225 °C NOTE	Drying Temperature	80.0	°C	
NOTE	Drying Time	2.0	hr	
	Processing (Melt) Temp	160 to 225	°C	
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