## Unipren® Elastomers B3 PRTA010 60A UP315

Polypropylene + EPDM Rubber

Petropol Industry and Trade of Polymers LTDA

## Message:

Thermoplastic compound in black based on EPDM with PP (TPE-V) dynamically vulcanized, suitable for high performance applications where outdoor exposure or resistance to high temperature (135°C) are important requirements.

Specific Gravity 0.970 g/cm³ ASS  Molding Shrinkage - Flow 2.0 to 3.0 % ASS  Hardness Nominal Value Unit Tes  Durometer Hardness (Shore A) 59 to 65 ASS  Elastomers Nominal Value Unit Tes  Tensile Stress 1 ASS  100% Strain 2.00 MPa  300% Strain 3.40 MPa  Tensile Strength 2 (Break) 5.60 MPa  Tensile Elongation 3 (Break) 450 % ASS  Compression Set (70°C, 22 hr) 36 % ASS  Injection Nominal Value Unit	
Appearance Black  Resin ID (ISO 1043) >TPE<  Physical Nominal Value Unit Tes  Specific Gravity 0.970 g/cm³ AST  Molding Shrinkage - Flow 2.0 to 3.0 % AST  Hardness Nominal Value Unit Tes  Durometer Hardness (Shore A) 59 to 65 AST  Elastomers Nominal Value Unit Tes  100% Strain 2.00 MPa  3.00% Strain 3.40 MPa  Tensile Strength 2 (Break) 5.60 MPa  Tensile Strength 3 (Break) 450 % AST  Tear Strength 4 30.0 kN/m AST  Compression Set (70°C, 22 hr) 36 % AST  Injection Nominal Value Unit	
Resin ID (ISO 1043)  Physical  Nominal Value  Unit  Tes  Specific Gravity  0.970  g/cm³  AST  Molding Shrinkage - Flow  2.0 to 3.0  Mominal Value  Unit  Tes  Durometer Hardness (Shore A)  59 to 65  Elastomers  Nominal Value  Unit  Tes  100% Strain  2.00  MPa  300% Strain  3.40  MPa  Tensile Strength 2 (Break)  Tensile Strength 2 (Break)  Tensile Elongation 3 (Break)  450  KN/m  AST  Compression Set (70°C, 22 hr)  36  Nominal Value  Unit  Unit  Injection  Nominal Value  Unit  Unit  Injection  Unit  Unit  Unit  Injection	
Resin ID (ISO 1043)  Physical  Nominal Value  Unit  Tes  Specific Gravity  0.970  g/cm³  AST  Molding Shrinkage - Flow  2.0 to 3.0  Mominal Value  Unit  Tes  Durometer Hardness (Shore A)  59 to 65  Elastomers  Nominal Value  Unit  Tes  100% Strain  2.00  MPa  300% Strain  3.40  MPa  Tensile Strength 2 (Break)  Tensile Strength 2 (Break)  Tensile Elongation 3 (Break)  450  KN/m  AST  Compression Set (70°C, 22 hr)  36  Nominal Value  Unit  Unit  Injection  Nominal Value  Unit  Unit  Injection  Unit  Unit  Unit  Injection	
PhysicalNominal ValueUnitTestSpecific Gravity0.970g/cm³ASTMolding Shrinkage - Flow2.0 to 3.0%ASTHardnessNominal ValueUnitTestDurometer Hardness (Shore A)59 to 65ASTElastomersNominal ValueUnitTestTensile Stress 12.00MPa300% Strain3.40MPaTensile Strength 2 (Break)5.60MPaASTTensile Elongation 3 (Break)450%ASTTear Strength 430.0kN/mASTCompression Set (70°C, 22 hr)36%ASTInjectionNominal ValueUnit	
Specific Gravity 0.970 g/cm³ AST  Molding Shrinkage - Flow 2.0 to 3.0 % AST  Hardness Nominal Value Unit Test  Durometer Hardness (Shore A) 59 to 65 AST  Elastomers Nominal Value Unit Test  Tensile Stress 1 AST  100% Strain 2.00 MPa  300% Strain 3.40 MPa  Tensile Strength 2 (Break) 5.60 MPa  Tensile Elongation 3 (Break) 450 % AST  Compression Set (70°C, 22 hr) 36 % AST  Injection Nominal Value Unit	
Molding Shrinkage - Flow 2.0 to 3.0 % AST Hardness Nominal Value Unit Test Durometer Hardness (Shore A) 59 to 65 AST Elastomers Nominal Value Unit Test Tensile Stress 1 AST 100% Strain 2.00 MPa 300% Strain 3.40 MPa AST Tensile Strength 2 (Break) 5.60 MPa AST Tensile Elongation 3 (Break) 450 % AST Tear Strength 4 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	st Method
Hardness Nominal Value Unit Test Durometer Hardness (Shore A) 59 to 65  Elastomers Nominal Value Unit Test Tensile Stress 1 2.00 MPa 300% Strain 2.00 MPa Tensile Strength 2 (Break) 5.60 MPa Tensile Elongation 3 (Break) 450 % AST Tear Strength 4 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	TM D792
Durometer Hardness (Shore A) 59 to 65  Elastomers Nominal Value Unit Test Tensile Stress 1 2.00 MPa 300% Strain 3.40 MPa MPa  Tensile Strength 2 (Break) 5.60 MPa AST Tensile Elongation 3 (Break) 450 % AST Tear Strength 4 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	TM D955
Elastomers Nominal Value Unit Test Tensile Stress   100% Strain 2.00 MPa 300% Strain 3.40 MPa  Tensile Strength   (Break) 5.60 MPa  Tensile Elongation   (Break) 450 % AST  Tear Strength   (Compression Set (70°C, 22 hr) 36 % Moninal Value Unit	st Method
Tensile Stress <sup>1</sup> 100% Strain  2.00  MPa  300% Strain  3.40  MPa  Tensile Strength <sup>2</sup> (Break)  5.60  MPa  AST  Tensile Elongation <sup>3</sup> (Break)  450  %  AST  Tear Strength <sup>4</sup> 30.0  kN/m  AST  Compression Set (70°C, 22 hr)  36  Nominal Value  Unit	TM D2240
100% Strain2.00MPa300% Strain3.40MPaTensile Strength 2 (Break)5.60MPaASTTensile Elongation 3 (Break)450%ASTTear Strength 430.0kN/mASTCompression Set (70°C, 22 hr)36%ASTInjectionNominal ValueUnit	st Method
300% Strain 3.40 MPa AST Tensile Strength <sup>2</sup> (Break) 5.60 MPa AST Tensile Elongation <sup>3</sup> (Break) 450 % AST Tear Strength <sup>4</sup> 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	TM D412
Tensile Strength <sup>2</sup> (Break) 5.60 MPa AST Tensile Elongation <sup>3</sup> (Break) 450 % AST Tear Strength <sup>4</sup> 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	
Tensile Elongation <sup>3</sup> (Break) 450 % AST Tear Strength <sup>4</sup> 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	
Tear Strength <sup>4</sup> 30.0 kN/m AST Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	TM D412
Compression Set (70°C, 22 hr) 36 % AST Injection Nominal Value Unit	TM D412
Injection Nominal Value Unit	TM D624
·	TM D395B
Drying Temperature 80.0 °C	
Drying Time 2.0 hr	
Processing (Melt) Temp 180 to 200 °C	
Mold Temperature 25.0 to 50.0 °C	
NOTE	
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