## Unipren® Elastomers B3 PRTA010 75A UP318

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  ASTM  Molding Shrinkage - Flow  2.0 to 3.0  %  ASTM  Hardness  Nominal Value  Unit  Test N  Durometer Hardness (Shore A)  74 to 80  ASTM  Elastomers  Nominal Value  Unit  Test N  Tensile Stress¹  ASTM  100% Strain  3.10  MPa  300% Strain  4.30  MPa  Tensile Strength² (Break)  8.00  MPa  ASTM  Tensile Elongation³ (Break)  460  %  ASTM  Tear Strength⁴  40.0  kN/m  ASTM	
Appearance         Black           Resin ID (ISO 1043)         >TPE<	
Resin ID (ISO 1043)  TPE<  Physical  Nominal Value  Unit  Test Nominal Value  Specific Gravity  0.970  9/cm³  ASTM  Molding Shrinkage - Flow  2.0 to 3.0  Waster ASTM  Hardness  Nominal Value  Unit  Test Nominal Value  Tensile Stress 1  100% Strain  3.10  MPa  3.10  MPa  Tensile Strength 2 (Break)  4.30  MPa  ASTM  Tensile Elongation 3 (Break)  460  Waster ASTM  Tensile Elongation 3 (Break)  40.0  KN/m  ASTM  Compression Set (70°C, 22 hr)  Nominal Value  Unit  Unit  Test Nominal Value  Unit	
Resin ID (ISO 1043)  TPE<  Physical  Nominal Value  Unit  Test Nominal Value  Specific Gravity  0.970  9/cm³  ASTM  Molding Shrinkage - Flow  2.0 to 3.0  Waster Hardness  Nominal Value  Unit  Test Nominal Value  Tensile Stress 1  100% Strain  3.10  MPa  3.00% Strain  4.30  MPa  Tensile Strength 2 (Break)  8.00  MPa  ASTM  Tensile Elongation 3 (Break)  460  Waster May  ASTM  Tear Strength 4  40.0  KN/m  ASTM  Compression Set (70°C, 22 hr)  37  Nominal Value  Unit  Unit  Test Nominal Value  Unit  Test Nominal Value  Unit  Unit  Test Nominal Value  Unit  Unit  Unit  Unit  Unit  Unit  Unit  Unit	
PhysicalNominal ValueUnitTest ModeSpecific Gravity0.970g/cm³ASTMMolding Shrinkage - Flow2.0 to 3.0%ASTMHardnessNominal ValueUnitTest ModeDurometer Hardness (Shore A)74 to 80UnitTest ModeElastomersNominal ValueUnitTest ModeTensile Stress 1ASTMASTM100% Strain3.10MPa300% Strain4.30MPaTensile Strength 2 (Break)8.00MPaASTMTensile Elongation 3 (Break)460%ASTMTear Strength 440.0kN/mASTMCompression Set (70°C, 22 hr)37%ASTMInjectionNominal ValueUnit	
Specific Gravity 0.970 g/cm³ ASTM Molding Shrinkage - Flow 2.0 to 3.0 % ASTM Hardness Nominal Value Unit Test M Durometer Hardness (Shore A) 74 to 80 Unit Test M Elastomers Nominal Value Unit Test M 100% Strain 3.10 MPa 100% Strain 4.30 MPa Tensile Strength 2 (Break) 8.00 MPa ASTM Tensile Elongation 3 (Break) 460 % ASTM Compression Set (70°C, 22 hr) 37 % ASTM Injection Nominal Value Unit	
Molding Shrinkage - Flow 2.0 to 3.0 % ASTM Hardness Nominal Value Unit Test M Durometer Hardness (Shore A) 74 to 80 ASTM Elastomers Nominal Value Unit Test M Tensile Stress 1 ASTM 100% Strain 3.10 MPa 300% Strain 4.30 MPa Tensile Strength 2 (Break) 8.00 MPa ASTM Tensile Elongation 3 (Break) 460 % ASTM Tear Strength 4 40.0 kN/m ASTM Compression Set (70°C, 22 hr) 37 % ASTM	1ethod
Hardness Nominal Value Unit Test Modern Planchess (Shore A) 74 to 80 ASTM Planchess (Shore A) 74 to 80 Unit Test Modern Planchess (Shore A) Nominal Value Unit Test Modern Planchess (Shore A) ASTM Planchess (Shore A) Nominal Value Unit Test Modern Planchess (Shore A) ASTM Planchess (Shore A) Nominal Value Unit Test Modern Planchess (Shore A) ASTM Planchess (Shore A) Nominal Value Unit Test Modern Planchess (Shore A) ASTM Planchess (Shore A	D792
Durometer Hardness (Shore A) 74 to 80 ASTM  Elastomers Nominal Value Unit Test Nominal Stress 1 ASTM  100% Strain 3.10 MPa  300% Strain 4.30 MPa  Tensile Strength 2 (Break) 8.00 MPa  Tensile Elongation 3 (Break) 460 % ASTM  Tear Strength 4 40.0 kN/m ASTM  Compression Set (70°C, 22 hr) 37 % ASTM  Injection Nominal Value Unit	D955
Elastomers Nominal Value Unit Test March 100% Strain 3.10 MPa 300% Strain 4.30 MPa ASTM Tensile Strength 2 (Break) 8.00 MPa ASTM Tensile Elongation 3 (Break) 460 % ASTM Tear Strength 4 40.0 kN/m ASTM Compression Set (70°C, 22 hr) 37 % ASTM Injection Nominal Value Unit	lethod
Tensile Stress <sup>1</sup> 100% Strain  3.10  MPa  300% Strain  4.30  MPa  Tensile Strength <sup>2</sup> (Break)  8.00  MPa  ASTM  Tensile Elongation <sup>3</sup> (Break)  460  %  ASTM  Tear Strength <sup>4</sup> 40.0  kN/m  ASTM  Compression Set (70°C, 22 hr)  Nominal Value  Unit	D2240
100% Strain3.10MPa300% Strain4.30MPaTensile Strength 2 (Break)8.00MPaASTMTensile Elongation 3 (Break)460%ASTMTear Strength 440.0kN/mASTMCompression Set (70°C, 22 hr)37%ASTMInjectionNominal ValueUnit	lethod
300% Strain 4.30 MPa  Tensile Strength <sup>2</sup> (Break) 8.00 MPa ASTM  Tensile Elongation <sup>3</sup> (Break) 460 % ASTM  Tear Strength <sup>4</sup> 40.0 kN/m ASTM  Compression Set (70°C, 22 hr) 37 % ASTM  Injection Nominal Value Unit	D412
Tensile Strength 2 (Break)8.00MPaASTMTensile Elongation 3 (Break)460%ASTMTear Strength 440.0kN/mASTMCompression Set (70°C, 22 hr)37%ASTMInjectionNominal ValueUnit	
Tensile Elongation <sup>3</sup> (Break) 460 % ASTM Tear Strength <sup>4</sup> 40.0 kN/m ASTM Compression Set (70°C, 22 hr) 37 % ASTM Injection Nominal Value Unit	
Tear Strength 4 40.0 kN/m ASTM Compression Set (70°C, 22 hr) 37 % ASTM Injection Nominal Value Unit	D412
Compression Set (70°C, 22 hr) 37 % ASTM Injection Nominal Value Unit	D412
Injection Nominal Value Unit	D624
·	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	
1. Die C	
2. Die C	
3. Die C	
4. Die C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

## 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

