



Polyvinyl Chloride (PVC)

PVC is one of the two most important plastic materials available today. It is produced at NPC (BIPC site) by suspension polymerization process. PVC compounds of large extent of stabilizers and other additives are able to meet the requirements of many applications. PVC grades produced by NPC with their general information, applications, and specifications are as follow:

PVC- 6058	<p>Extrusion of flexible section and hoses: This grade processed with plasticizer is particularly suitable for the manufacture of flexible section & hoses. The most varied field of applications satisfied by this product are transparent sheets and hollow wares etc.</p> <p>Calendering :This grade processed without plasticizer is used for calendering ,for example HT- film can be produced by this grade. It processed with plasticizer is used as additive polymer in compounds for calendering ,for example film and floor covering can be produced.</p> <p>Injection molding :Grade S6058 processed without plasticizer is used for the injection molding. S- PVC in compounds permits a trouble free processing on conventional PVC injection molding machines for sanitary ware ,building parts ,water fittings ,WC flush tanks, electrical switch cabinets etc.</p>
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PVC- 6558	<p>Extrusion of flexible sections and hoses: This grade processed with plasticizer is particularly suitable for manufacture of rigid sections & hoses. The most varied field of applications satisfied by this product are transparent and solid colored hoses and section etc.</p> <p>Injection molding :This grade in compounds permits a trouble free processing on conventional PVC injection molding machines for sanitary ware ,building parts ,w ater fitting ,WC flush tanks etc .Grade S6558 processed without plasticizer is used for the injection molding.</p>
PVC- 7054	<p>Extrusion of flexible sections and hoses: This grade processed with plasticizer is particularly suitable for the manufacture of flexible sections & hoses. The most varied field of applications are satisfied by this product like ,transparent and solid colored hoses and sections, refrigerator seals , sealing for window & doors , film & sheets. Grade S7054 processed with plasticizer is suitable for wide range of thickness like film and floor covering.</p> <p>Injection molding : This grade in compounds permits a trouble free processing on conventional PVC injection molding machines for camping / leisure equipment ,packaging ,roof lights ,electronic /phone equipment etc. Grade7054 processed with plasticizer is used for the injection molding.</p> <p>Cable industry: Grade S7054 processed with plasticizer is widely used for the manufacture of cable insulation and sheathing for voltages up to 20KV.It is most suitable for the manufacture of high quality cable insulation.</p>





Polyvinyl Chloride (PVC)

General Information:

PVC- S 6058: This grade has low porosity & very high bulk density. Therefore it is most suitable for rigid applications, high machine throughput & specific application as additive polymer.

PVC-S 6558: This grade has low porosity & high bulk density. Therefore it is most suitable for flexible applications.

PVC- S 7054: This grade has high porosity. Therefore it is most suitable for flexible applications. The electrical, mechanical & thermal properties expected of the various applications can be achieved with this grade.

Typical Properties of Poly vinyl chloride



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<i>Property</i>	<i>K- value</i>	<i>Sulphate ash</i>	<i>Volatiles</i>	<i>Bulk density</i>	<i>Screen analysis (residue on sieve) 63 micron 250 micron</i>	<i>Dark resin (particles in 250gr PVC)</i>	<i>Plasticizer acceptance</i>	<i>Fish eyes</i>	<i>Flow ability (dia. Of funnel outlet)</i>	<i>Viscosity number</i>	<i>Residual VCM</i>
<i>Unit</i>		<i>wt % max.</i>	<i>wt % max</i>	<i>gr/lit</i>	<i>wt % min. wt % max.</i>	<i>No. max.</i>	<i>gr (DOP/100gr PVC) min</i>	<i>Number (per 25 cm²) Max</i>	<i>mm max</i>	<i>cm³/g</i>	<i>ppm</i>
<i>Method</i>	<i>DIN-53726</i>	<i>DIN-53568/2</i>	<i>ISO R-1269</i>	<i>DIN-53466</i>	<i>DIN- 53734 DIN- 53734</i>	<i>HULS- 6.7</i>	<i>DIN 53417/1</i>	<i>HULS- 6.9</i>	<i>HULS- 6.10</i>	<i>DIN- 53762</i>	<i>HULS- 6.11</i>
<i>PVC- 6058</i>	<i>60</i>	<i>0.05</i>	<i>0.2</i>	<i>580</i>	<i>90 5</i>	<i>30</i>	<i>10</i>	<i>5</i>	<i>4</i>	<i>88</i>	<i>≤ 1</i>
<i>PVC- 6558</i>	<i>65</i>	<i>0.05</i>	<i>0.2</i>	<i>600</i>	<i>90 5</i>	<i>30</i>	<i>10</i>	<i>5</i>	<i>4</i>	<i>105</i>	<i>≤ 1</i>
<i>PVC- 7054</i>	<i>70</i>	<i>0.05</i>	<i>0.2</i>	<i>475</i>	<i>85 0.5</i>	<i>30</i>	<i>30</i>	<i>5</i>	<i>4</i>	<i>125</i>	<i>≤ 1</i>

Producer :Bandar Imam Petrochemical Company (BIPC)

The above data are typical laboratory average. They are intended to serve as guides only.



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