

# EDMALOY 5563

## Black High Density Polyethylene Pipe Grade (PE63)

### Application :

EDMALOY 5563 is a special designed high density polyethylene compound **MRS 6.3 MPa** for Pressure pipes.

Property	Typical value	Units	Test Method
Melt Flow Index ( 190 °C , 5 Kg )	<b>0.50 ± 0.15</b>	g/10 min	ASTM D1238
Density(Base Resin)	<b>0.945±0.005</b>	g/Cm <sup>3</sup>	ASTM D1505
Density(compound)	<b>0.955 ± 0.005</b>	g/Cm <sup>3</sup>	ASTM D1505
Carbon Black Content	<b>2.25 ± 0.25</b>	%	ASTM D1603
Tensile Strength @ Yield	<b>&gt;20</b>	Mpa	ASTM D638
Tensile Strength @ Break	<b>&gt;25</b>	Mpa	ASTM D638
Elongation @ Break	<b>&gt; 600</b>	%	ASTM D638
ESCR ( 10% Igepal F0 ,Condition B )	<b>&gt; 2000</b>	hours	ASTM D1693
Oxidative Induction Time ( 200 °C )	<b>&gt; 30</b>	minutes	ASTM D3895
Hydrostatic strength test (at 80 °C)	<b>passed</b>	>1000 hrs.	ISO 1167
Carbon Black Dispersion	<b>&lt; 5</b>	rating	BS 2782 823 A

### Suggested General Extrusion Conditions :

Extruder Zone	Temperature Range	Extruder Zone	Temperature Range
Zone 1	140oC-150oC	Zone 4-X	180oC-190oC
Zone 2	150oC-160oC	Adapter	190oC-200oC
Zone 3	170oC-180oC	Die	190oC-230oC

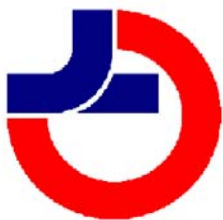
### Description :

The compound contains a nominal carbon black content of 2.25% and antioxidant has been added to ensure the thermal stability during processing. Edmaloy 5563 has excellent stress cracking resistance and also a long time service life due to excellent ESCR, oxidation, weathering and UV resistances.

Disclaimer : Above mentioned properties has been performed in EDMAN laboratory condition ,and may varying in other conditions.

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