

EDMALOY 5055

High Density Polyethylene Cable Grade

Application :

EDMALOY 5055 is a special designed high density polyethylene compound for Cable jacketing .

Property	Typical value	Units	Test Method
Melt Flow Index (190 °C , 5 Kg)	0.50 ± 0.15	g/10 min	ASTM D1238
Density(Base Resin)	0.945±0.005	g/Cm ³	ASTM D1505
Density(compound)	0.955 ± 0.005	g/Cm ³	ASTM D1505
Carbon Black Content	2.5 ± 0.5	%	ASTM D1603
Tensile Strength @ Yield	>22	Mpa	ASTM D638
Tensile Strength @ Break	>31	Mpa	ASTM D638
Elongation @ Break	> 600	%	ASTM D638
ESCR (10% Igepal F0 ,Condition B)	> 2000	hours	ASTM D1693
Oxidative Induction Time (200 oC)	> 30	minutes	ASTM D3895
Dielectric Constant @ 1 MHZ	2.6 max		ASTM D150
Dissipation Factor @ 1 MHZ	0.004 max		ASTM D150
Carbon Black Dispersion	< 5	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 2.5% and antioxidant has been added to ensure the thermal stability during processing. Edmaloy 5055 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.

Head Office : Tel : + 98 (311) 7761797
Factory : Tel : + 98 (335) 3482991 : 5

Fax : + 98 (335) 3482996
E-mail : info@edmanco.ir



EDMAN

POLYETHYLENE MANUFACTURING COMPANY



No. CH03/0908