

Data sheet

Granule Type: APPID1

Description

APPID1 is a black linear low density polyethylene compound. It's suitable for production of pipes for drip irrigation.

APPID1 is characterized by:

- * Good mechanical properties
- * High Environmental Stress Cracking Resistance, (ESCR)
- * Good Process ability
- * It contains 2.5% of well-dispersed carbon black in order to ensure excellent weathering resistance

Specification:

According to ISIRI 7607 & ISO 8779

Color: Black

Properties	Unit	Typical Value	Standard and Test Method
Density compound	gr/cm ³	0.94±0.01	ASTM D792
Melt Flow Index(190C/2.16kg)	gr/10min	0.4±0.05	ASTM D1238
Carbon black content	%	2-2.5	ASTM D1603
Properties before ageing			
Tensile strength	N/mm ²	min 17	ASTM D638
Elongation at break	%	min 600	
O.I.T at 200°C	min	min 30	ASTM D3895
E.S.C.R(50°C.Cond.B-10% Igepal)	h	>2000	ASTM D1693
Hardness	Shore D	56±1	ASTM D2240(15sec)
Carbon black Dispersion	----	max 2.5	BS 2782 , ISO 18553

Processing Guidelines

APPID01 provides excellent surface finish. We suggest a temperature profile as below:

	zone 1	zone 2	zone 3	zone 4	head	die
max (°C)	170	180	180	190	200	220
min (°C)	150	160	160	170	180	200

If preheating and/or drying are used, the maximum temperature should be 90°C.

Safety

APPID01 is classified as no-dangerous material.

Packaging

It is available in the form of pellets and supplied in PP laminated bag with a net content of 25 kgs.

Technical Service

Abhar Polymer Compounds Technical Service is available to help the customer to choose the best product for his requirements.

Our Technical Service is at your disposal for further information and advice about the start-up and also for any possible necessity during the use of the product.

Disclaimer

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