



PETRONAS



PRODUCT DATA SHEET

MFR 1.10

Density 952

ETILINAS HD 5403AA

High Density Polyethylene Blow Moulding Applications

DESCRIPTION

ETILINAS HD5403AA is a medium molecular weight density polyethylene copolymer grade, supplied in pellet form, which has an optimum balance properties for use in a wide range of blow moulding and extrusion applications. ETILINAS HD5403AA meets the United States Food and Drug Administration (US FDA) criteria for food contact use as specified in CFR 177.1520 (c) 3.1a & 3.2a and Commission Regulation (EU) No. 10/2011.

CHARACTERISTICS include:

i : N_e PR_VT i W NP _ R T U
i TV Ve i _a NPR k VU
i TUR bV YR N _ R_P NPW/T R_V N PR

APPLICATIONS include:

i 7 c Y a R P NR_a *) V R_PN NPVe S Household, Industrial and Chemicals (HIC) containers
i EUNY NPRa VN_N R _ N PNRP NR_
i C R_a R VR aPVTN P aV

Product Properties*	Test Method	Units	Value
General Properties			
Melt Flow Rate, I ₂	GD **, , 5 *2) g8 +*/ WT	g/10min	0.25
Melt Flow Rate , I ₅	GD **, , 5 *2) g8 .) WT	g/10min	1.10
Nominal Density	ISO 1183	W(Y ³	952
BR VTE V	ISO 3146	°C	132
JVN G SR VTE V	ISO 306	°C	127
Mechanical Properties			
Tensile Strength at Yield	ASTM D 638, 50mm/min, type 4	B EN	27
: TNV N 7 RNW	ASTM D 638, 50mm/min, type 4	%	1100
Young Modulus	ASTM D 638	B EN	500
Flexural Modulus	ASTM D 790	B EN	1400
Charpy Impact Strength	ISO 179, type 1 Notch A	W(Y ²	12
Heat Deflection Temperature	ASTM D 648, BR U 7	°C	68
Vicat Softening Temperature	ASTM D 1525, A N 3*W4 RNV T NR3) g8(U	°C	128
: G8 F 8 7 F ₅₀	ASTM D 1693, 100% Igepal	hrs	50
HUR Ue_VPN R VR_U c NR e VPN bNaR_ ONVR OeNbR NTV T N aY CR S R_ Ra _N _Y N VR TR PR S Y a R kTa R_Y Nb PPa			

Typical Processing Conditions

Recommended melt temperature is in the range of from 170°C to 210°C depending on the type of machine.

PRODUCT DATA SHEET



PETRONAS



MFR 1.10

Density 952 **ETILINAS HD 5403UA**

High Density Polyethylene Blow Moulding Applications

SPECIFICATIONS

ETILINAS HD 5403AA P Y V_c VU URS c VT_ RPVPNV c UR PR_R a_VTT Rd a_V NP VPR3
i ; 96 FRTa NV +* 8; F *00*. +)
i Commission Regulation (EU) No. 10/2011.
i 6A6A PR VR 6@B(G(++)) (-2+(+*) **), (+) **

AVAILABILITY

ETILINAS HD 5403AA NR Nb MNOR V +. WT N Ca WONT HUR aP e RN CNPU aY OR NR PRN eY NV R
each bag.

STORAGE/HANDLING

ETILINAS HD 5403AA _U a CR Re_ R V c R bR VNR R bV YR N NRY R Na R SCR c .) g8
E TR W R_ NTRPN Ra V RRV NV S aP R VR HURE: HFDC6G8URY VPN_GNR e
9 NNGJRR OG P NV_W N _NR eVS YNV N _U a CR bVR CR RS Ra_VT UR aP

HEALTH & SAFETY

ETILINAS HD 5403AA V PN_VR N N NTR a_ R NNV ERN_R RSR a GNR e9 NNGJRR OG S
R NV_ bNV a_N RP_ S_NR e RP bR eN V _N S UR aP

PRODUCT STEWARDSHIP

E8 7 UN_NSa NYR NP PR S N cU YNR V Ca RN a_RV_ aP_N S URR bV YR
V c UPUCR VR Da E aP GRc N _UV TNY R_c VURNPUN RbR eV VVaNVb bR cVUE8 7h
products– from the initial concept and research, to manufacture, use, sale and disposal of each product.

RELATED DOCUMENTS

HURS c VT RNR PaY R _NR Nb MNOR R aR_ N R R_R bNV a_N RP_ UR a_NOWe _NR e
RP bR eN V _N S UR aP

Safety Data Sheet (SDS)

Statement on chemicals, regulations and standards

Statement on compliance to food contact regulations

FOR MORE INFORMATION

ERN_R P NP **PETRONAS Chemicals Group Berhad (PCGB)** ARbR *. H cR * E: HFDC6G8H C HDK : F
@A88 .)) 11 @ 6A6A BEI F B 6A6LG6
HR3 /), +) . *.))) ; Nd3 /), +) . **.) * bVV a _VRccc R NLPURY VPN_P Y
GNR_P NP R_ 4HR3), +, 2**2.2 : Y NV3N VR NF VRMN N 5 R NLP Y Ye



MS ISO 9001:2008 REG NO: 3349



IMPORTANT NOTICE

S YNV P NV R V UL PaY R VNP Pa NRN R WDR UROR_ S URW c R TRN CRVS SE: HFDC6G8URY VPN_ a 7R UN
UR_aTTR_V _N RP YYR NV _ RR UR RV _R bR NLTaVRV URa_R S UR_RY NRW N PN CRTaNN RR CRPN_R UR
P VV _ Sa_RNROR e E8 7h_P E8 7 N_aYR_ R_ _VOWeS URa_R SVS YNV _a VR URN VPNV N N V
PR_VT S UR aP_ R_P VR UR RV N UR ROe VPWY _N VOWe RdPR NL UR cVR bVR Oe UR Nc V RTN _aPUa_R

FRb, (**(*-