



**POLYMERS
DIRECT**

TOTAL Petrochemicals

COMMODITY POLYMERS

Low & High Density Polyethylene

POLYETHYLENE	Test Method	Expressed Unit	LDPE			HDPE
			FB 3010	1070 MN18C	1200 MN18C	M6090UV
Property			Fractional Melt	Medium Flow	High Flow	UV Stab
			Blow/Film			Metallocene
Mechanical						
Tensile Strength at Break	ASTM D638	MPa	18	12	8	7
Elongation at Break	ASTM D638	%	650	450	200	>700
Flexural Modulus	ASTM D790	MPa	-	-	-	1600
Elasticity Modulus	ASTM D638	MPa	215	170	170	-
Shore Hardness	ASTM D2240	D	-	51	51	-
Izod Impact Strength at 23° C	ISO 180	Kg/cm ²	0.27	-	-	-
Thermal						
Vicat Temperature	ASTM D1525	°C	96	88	85	131
Melting Point	ISO 3146	°C	112	108	106	133
Miscellaneous						
Melt flow index 190 °C @ 2.16kg	ASTM D1238	g/10min	0.26	7.5	22	8.5
Density	ASTM D1505	-	0.922	0.918	0.918	0.960
Mould Shrinkage	ASTM D1505	%	-	1-3	2-4	-
UV Resistance Xenotest 1200	ISO 4892		-	-	-	-

The typical values listed were obtained from natural materials tested under laboratory conditions. The information is offered in good faith but without warranty or guarantee. It does not constitute design data and it remains the user's responsibility to satisfy themselves as to the materials suitability for any purpose. For further information please contact

Polymers Direct Limited E-mail: info@polymersdirect.com Web: www.polymersdirect.com
 Head Office: Kendrick House, Wharf Street, Newbury. RG14 5AP Tel. 01635 521134 Fax. 01635 36100
 Midlands Office: 7 Church Street, Warwick, Warks. CV34 4AB Tel. 01926 493965 Fax. 01926 410460