Marlex® K605

High Density (HMW) Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® K605 is a High Density (HMW) Polyethylene material. It is available in Latin America or North America for blow molding or thermoforming.
Important attributes of Marlex® K605 are:
Eco-Friendly/Green
Food Contact Acceptable
High ESCR (Stress Crack Resistant)
High Molecular Weight
Homopolymer
Typical applications include:
Automotive
Containers
Additive/Masterbatch
Food Contact Applications
Trays/Racks

General Information	
Features	Durable
	Food Contact Acceptable
	Good Melt Strength
	High ESCR (Stress Crack Resist.)
	High Rigidity
	Homopolymer
	Recyclable Material
	Ultra High Molecular Weight
Uses	Automotive Bumper
	Containers
	Masterbatch
	Support Trays
	Tool/Tote Box
Agency Ratings	ASTM D 4976-PE245
	FDA 21 CFR 177.1520(c) 3.2a 2
Forms	Pellets
Processing Method	Blow Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm³	ASTM D1505

Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	30.0	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	30.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - Tangent [3] (Compression Molded)	1510	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [4] (Compression Molded)	240	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	88.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	128	°C	ASTM D1525 [5]

NOTE	
1.	Type IV, 51 mm/min
2.	Type IV, 51 mm/min
3.	13 mm/min
4.	Type S bar
5.	Rate A (50°C/h), Loading 1 (10 N)

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