

Generic HDPE Copolymer

High Density Polyethylene Copolymer

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic HDPE Copolymer
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.951 - 0.954	g/cm ³	ASTM D792
23°C	0.953 - 0.959	g/cm ³	ISO 1183
--	0.944 - 0.956	g/cm ³	ASTM D1505
--	0.944 - 0.952	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.050 - 7.0	g/10 min	ASTM D1238
190°C/2.16 kg	0.050 - 30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (23°C)	1.00 - 5000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	59 - 71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	240 - 1210	MPa	ASTM D638
23°C	1000 - 1110	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	19.9 - 28.5	MPa	ASTM D638
Yield, 23°C	25.9 - 26.2	MPa	ISO 527-2
Fracture, 23°C	13.0 - 38.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	7.3 - 13	%	ASTM D638
Fracture, 23°C	96 - 1000	%	ASTM D638
Fracture, 23°C	200 - 350	%	ISO 527-2
Flexural Modulus (23°C)	740 - 1310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30 - 490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	61.5 - 74.3	°C	ASTM D648
Brittleness Temperature	-118 - -73.8	°C	ASTM D746
Vicat Softening Temperature	124 - 128	°C	ASTM D1525

Peak Melting Temperature	127 - 133	°C	ASTM D3418
Injection	Nominal Value	Unit	
Processing (Melt) Temp	205 - 225	°C	
Injection instructions			

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