Trilliant™ HC 5410-0030RS Natural

High Density Polyethylene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18	ASTM D792
Molding Shrinkage - Flow	3.0E-3 in/in	0.30 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	600000 psi	4140 MPa	ASTM D638
Tensile Strength [2] (Break)	6000 psi	41.4 MPa	ASTM D638
Tensile Elongation [2] (Break)	4.0 %	4.0 %	ASTM D638
Flexural Modulus	600000 psi	4140 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	1.5 ft·lb/in	80 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	240 °F	116 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 430 °F	193 to 221 °C
Mold Temperature	80 to 130 °F	27 to 54 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)