

Technical Data Sheet (TDS)

HDPE YC1002

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate ⁽¹⁾			
at 190°C and 2.16 kg ⁽¹⁾	0.05	g/10 min	ASTM D 1238
at 190°C and 5 kg	0.38	g/10 min	ASTM D 1238
at 190°C and 21.6 kg	10	g/10 min	ASTM D 1238
Density at 23°C	952	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
1% Secant Modulus	1000	MPa	ASTM D638
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Strength at Break	18	MPa	ASTM D638
Tensile Elongation at Break	>500	%	ASTM D638
Flexural Strength ⁽²⁾	26	MPa	ASTM D790
Flexural Modulus	1050	MPa	ISO 178/1A
Izod Impact Strength	300	J/m	ASTM D256
Hardness (Shore D)	63	-	ASTM D2240
ESCR (100% Igepal), F50	>1200	hrs	ASTM D1693B
ESCR (10% Igepal), F50	720	hrs	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Point	125	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

For your reference only.

