DATA SHEET of recycled polyolefins rPPPE

produced from big bags was provided by Ltd Nordic Plast

T melting (PP), ^{o}C	167
T melting (HDPE), ^{o}C	125
Oxidation induction time, min	< 3
Decomposition onset temperature T_{onset}, ^{o}C	355
Contact angle (water), ^{o}	83
Melt flow index (g/10min) According to the supplier	7
Melt flow index (g/10min, 230 ^{o}C, 2.16kg) laboratory determined	6.1 ± 1.8
Viscosity at 190 ^{o}C, angular frequency100rad/s, Pa*s	740
Viscosity at 190 oC, angular frequency 0,1rad/s, Pa*s	5872
Density, g/cm^3	0,94
Tensile modulus (E_T), MPa ±STDV	1960 ± 67
Tensile strength (σy), MPa ±STDV	39 ± 1.1
Tensile strain at break (εB), % ±STDV	59 ± 11.8
Flexural modulus (E_F), MPa ±STDV	1427 ±79
Maximum flexural stress (σ_{max}), MPa ±STDV	40 ±1.1
Strain at maximum flexural strength (ε_{max}), % ±STDV	7 ± 0.1
Flexural modulus (E_F), MPa ±STDV (after immersion in water 2 weeks)	1677 ± 19
Maximum flexural stress (σ_{max}), MPa ±STDV (after immersion in water 2 weeks)	44 ± 0.2
Strain at maximum flexural strength (ε_{max}), % ± STDV (after immersion in water 2 weeks)	7 ± 0.1

Impact strength, un-notched	78 ±7
Impact strength, notched	4 ±0,4

Annex1.