

April 28, 2009

▪ **TEST REPORT** ▪

PN 83643C


PO LOA

Plastic Testing Department

Prepared For:

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SUBJECT: Grinding, Molding and various property testing on one sample.
PO WT

RECEIVED: Two sections of Polypropylene Special Corrugated Duct (named PESTEC IP 4 M PP Duct size 115/131/3.0 mm)and one duct coupler (named PFS coupler 131).

TENSILE PROPERTIES OF HARD PLASTIC ASTM D638-02

Instrument: Instru-met
Sample Preparation: Injection Molded
Test Specimen: Type I
Conditioning Period: 40 hrs. Minimum
Crosshead Speed: 2.0 in/min.
Gauge Length: 2.0 inches
Number of Specimens: 5

DETERMINATION OF IZOD IMPACT STRENGTH ASTM D256-02

Conditioning Time: 40 hrs Min.
Number of Specimens: 10

HEAT DEFLECTION TEMPERATURE ASTM D648-04, METHOD B

Instrument: Tinius Olsen
Load: 455 kPa
Rate of heat rise: 120°C/hr.
Immersion Medium: Silicone Oil (23°C at start – up)
Deflection: 0.25 mm

FLEXURAL PROPERTIES OF PLASTICS ASTM D790-02, Procedure A

Crosshead Speed: 0.05 in/min.
Support Span: 2.0 inches
Specimen Dimensions: 5.0" x 1/2" x 1/8"

MELT FLOW RATE OF THERMOPLASTICS ASTM D 1238-04b

Instrument: Tinius Olsen Plastometer
Temperature: 230°C
Load: 2.16 kg

OXIDATIVE INDUCTIVE TIME ASTM D3895

Temperature: 200°C

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Properties	Meets following ASTM D4101 cell classification 340PP55662	PP Duct
Tensile Strength @ Yield, MPa	25	28.3
Flexural Modulus, MPa	1000	1195
Izod Impact Strength, J/m	400	462
Heat Deflection Temperature, °C	100	104
Melt Flow Rate, g/10 min	0.3 to 1.00	0.44
Oxidative Inductive Time, minutes		24.3

The above results were obtained using 100% regrind material from pieces of corrugated plastic duct marked with the above noted batch number.

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