

Thermofit Molded Parts Specification Control Drawing

Part Number : 382A012 thru 046
 Description : Transition, Y

NOTES

- All dimensions are in inches ; lbs
 or in millimeters ; grams
- Dimensions appearing in table are as follows:
 0 - As Supplied
 b - After Unrestricted Recovery
- Coating is optional. As supplied dimensions appearing in table are for uncoated parts. When coating is added, entry diameters will be reduced by .06 max.
- Molding parts are optional. When -00 modification number is specified molding parts will be located as shown.
- Weight shown in table of dimensions is based on polyolefin part.

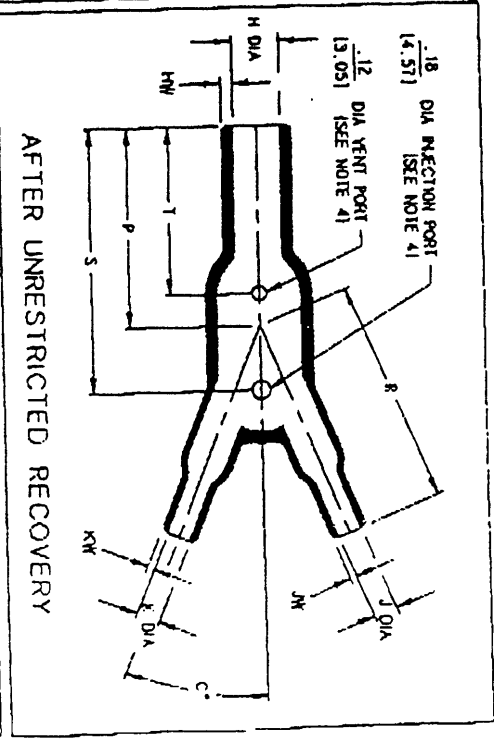
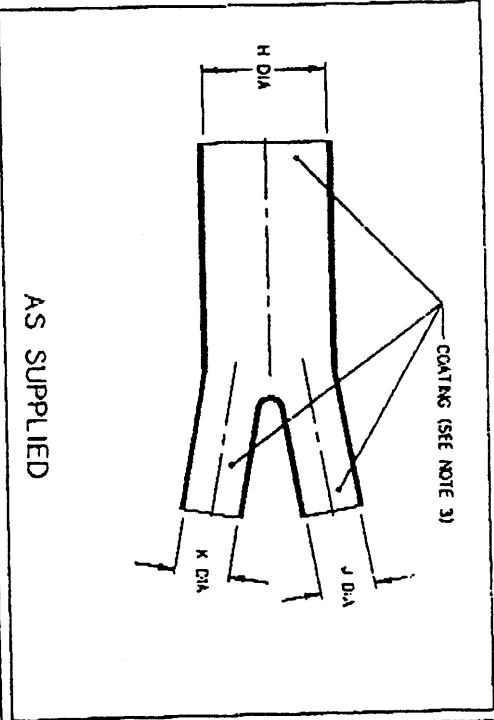


TABLE OF DIMENSIONS

PART NUMBER	H		J		K		P 110X b	R ±10X b	S ±10X b	T ±10X b	HW ±20X b	JW & KW ±20X b	C ±5X b	Weight Norm b
	Min 0	Max b	Min 0	Max b	Min 0	Max b								
382A012	.52 (13.21)	.24 (6.11)	.26 (6.61)	.13 (3.31)	.28 (6.61)	.13 (3.31)	.88 (22.41)	.76 (19.31)	.94 (23.91)	.61 (15.51)	.06 (1.52)	.04 (1.02)	22 1/2"	.004 (11.81)
382A023	1.06 (26.91)	.48 (12.41)	.52 (13.21)	.24 (6.11)	.52 (13.21)	.24 (6.11)	1.50 (38.11)	1.70 (43.21)	2.10 (53.31)	1.30 (33.01)	.10 (2.54)	.06 (1.52)	22 1/2"	.026 (11.79)
382A034	1.52 (38.61)	.71 (18.01)	1.06 (26.91)	.49 (12.41)	1.06 (26.91)	.49 (12.41)	2.58 (65.51)	3.10 (78.71)	3.10 (78.71)	2.20 (55.91)	.12 (3.05)	.10 (2.54)	22 1/2"	.141 (63.96)
382A046	2.19 (55.61)	1.02 (25.91)	1.06 (26.91)	.50 (12.71)	1.06 (26.91)	.50 (12.71)	3.35 (85.11)	3.70 (94.01)	4.40 (111.81)	2.80 (71.11)	.18 (4.57)	.10 (2.54)	22 1/2"	.249 (112.95)

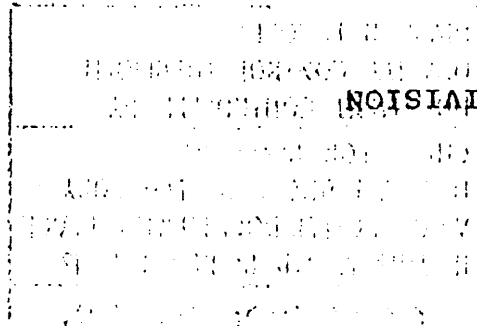
769 307 2 W44

Raychem
 RAYCHEM CORPORATION
 300 CONSTITUTION DRIVE
 MENLO PARK, CALIFORNIA 94025

Revision : T
 Date : 6/30/94

Part Number : 382A012 thru 046
 Description : Transition, Y

QUALITY ASSURANCE
SPECIFICATION RK6716
Issue: ONE
Date: 13.1.87
Page: 1



RAYCHEM
THERMOFIT PRODUCT DIVISION

MOULDED COMPONENTS SEMI-RIGID POLYOLEFIN (-15)

Moulded components manufactured from cross-linked, electrically-insulating, semi-rigid polyolefin material

1. SCOPE

This Quality Assurance Specification establishes the quality standard for moulded components, manufactured from cross-linked, electrically-insulating, semi-rigid polyolefin material, whose dimensions will reduce to a pre-determined size upon the application of heat.

2. REQUIREMENTS

2.1 Composition and Appearance

The moulded components shall be homogeneous and free from pinholes, bubbles, cracks and inclusions.

2.2 Colour

The components shall be black, unless otherwise specified.

2.3 Properties

The components shall meet all the requirements contained in Table 1.

Approved Signatories:

Quality Assurance

Technical

Product Management

QUALITY ASSURANCE SPECIFICATION RK6716 - ISSUE ONE

3. QUALITY ASSURANCE PROVISIONS

3.1 Classification of Tests

3.1.1 Class 1 Qualification

Class 1 Qualification tests are those performed on components submitted for qualification as a satisfactory product, and when a change of formulation takes place, and shall consist of all tests listed in this specification. In addition Qualification tests shall be carried out at a frequency satisfactory to the Inspection Authority.

3.1.2 Production Routine

Production Routine tests must be carried out on every batch of compound, and shall consist of the following: dimensions, tensile strength and ultimate elongation.

4. SAMPLING INSTRUCTIONS

4.1 Qualification Test Samples

Qualification test samples shall consist of six moulded plaques of dimensions approximately 150 x 150 x 2mm and the number of moulded components specified. The plaques and components shall be fabricated from the same batch of compound and subjected to the same degree of cross-linking.

QUALITY ASSURANCE SPECIFICATION RK6716 - ISSUE ONE

4.2.

Production Routine Test Samples

Production Routine Test samples shall consist of specimens cut from a moulded plaque and components selected at random.

Tests shall be carried out on samples taken from each batch of moulding compound. A batch of moulding material blended is defined as that quantity of moulding material blended at one time. A batch of moulded components is defined as that quantity of moulded components of the same part number manufactured at any one time from the same batch of moulding compound.

5.

TEST PROCEDURES

Unless otherwise specified, tests shall be carried out on a moulded test sheet of material 150mm x 150mm x 2.0 ± 0.3mm or on a moulded component of suitable size, recovered by conditioning in an oven at 150 ± 3 °C for 10 minutes and allowing to cool in air to ambient temperature.

5.1

Dimensions

Dimensions shall be in conformance with the appropriate Specification Control Drawing (SCD).

5.2

Tensile Strength and Ultimate Elongation

The test method shall be as specified in ISO 37. Five Type 2 dumbbell specimens shall be tested. The test shall be carried out at a temperature of 23 ± 2 °C. The rate of jaw separation shall be 100 ± 10mm per minute.

5.3 Secant Modulus

The test method shall be as specified in Method A of ASTM D882. The test shall be carried out at a temperature of $23 \pm 2^\circ\text{C}$. The initial jaw separation shall be 10mm and the rate of jaw separation 10 ± 1 mm per minute.

5.4 Specific Gravity

The test method shall be as specified in Method A of ISO R1183.

5.5 Heat Shock

The test method shall be as specified in ASTM D2671. The test requirements shall be $4h \pm 15m$ at $150 \pm 5^\circ\text{C}$ conditioning in a fan assisted air circulating oven. After conditioning the specimens shall be taken from the oven and cooled to room temperature and visually examined.

5.6 Heat Ageing

The test method shall be as specified in ISO R188. Depending upon the requirements of the Inspection Authority, either condition A or B shall apply. Either A, five tensile test specimens shall be conditioned at $120 \pm 3^\circ\text{C}$ for 168 ± 2 hrs in a fan assisted air circulating oven. Or B, five tensile test specimens shall be conditioned at $100 \pm 2^\circ\text{C}$ for 1000 ± 10 hrs in a fan assisted air circulating oven.

After conditioning the samples shall be removed from the oven, cooled to room temperature and tested for Tensile strength and Ultimate Elongation in accordance with 5.2.

contd/

5.6

Low Temperature Flexibility

5.7

The test method shall be as specified in ASTM D2671. The ends of five strip specimens 150mm x 6mm shall be inserted 25mm into the bending device, (comprising two parallel grips set 65mm apart) securely holding the specimens in a loop position. The specimens and bending device, shall be conditioned for 4h ± 15m at -40 ± 2 °C in a cold chamber. While still at the low temperature, the grips shall be moved to a position 25mm apart in less than two seconds.

Dielectric Strength

5.8

The test method shall be as specified in IEC 243, (Short-term test).

Water Absorption

5.9

The test method shall be as specified in Procedure A of ISO R62. Three disc specimens of diameter 25 ± 1mm shall be used where possible.

5.10

Fluid Resistance

The test method shall be as specified in ISO 1817. Five tensile test specimens prepared as in Clause 5.2 shall be completely immersed in each of the fluids listed below for the time stated. The volume of the fluids shall be not less than 20 times that of the specimens. After conditioning the specimens shall be removed, lightly wiped and air dried at $23 \pm 2^\circ\text{C}$ for $45 \pm 15\text{m}$. The Tensile Strength and Ultimate Elongation of each specimen shall be determined as in Clause 5.2. The samples shall be exposed for $24 \pm 2\text{hrs}$ at $23 \pm 2^\circ\text{C}$ to each of the test fluids listed below:

- (i) Transmission Fluid SAE 85-90
- (ii) Engine Oil SAE 20-50
- (iii) Hydraulic Fluid J1703

In addition samples shall also be exposed for $30 \pm 5\text{min}$ at $23 \pm 2^\circ\text{C}$ in the fluids listed below

- (i) Gasoline Automotive F46
- (ii) Diesel Fluid R54
- (iii) Cleaning Fluid TL6850-017
- (iv) Antifreeze (Ethylene Glycol)

5.11

Fungus Resistance

The test method shall be as specified in ISO R846. The specimens shall be conditioned for 56 days followed by testing according to Clause 5.2.

QUALITY ASSURANCE SPECIFICATION RK6716 - ISSUE ONE

6. PREPARATION FOR DELIVERY

6.1 Packaging

Packaging shall be in accordance with good commercial practice.

6.2 Marking

Each package shall bear an identification label showing quantity, part number and batch number. Additional information shall be supplied as specified in the contract or order.

7. RELATED DOCUMENTS

ASTM D882	Tensile Properties of Thin Plastic Sheet
ASTM D2671	Testing Heat-Shrinkable Tubing
IEC 243	Recommended Methods of Test for Electric Strength of Solid Insulating Materials at Power Frequencies
ISO 37	Determination of Tensile Stress-Strain Properties of Vulcanized Rubber
ISO R62	Plastics - Determination of Water Absorption
ISO R188	Vulcanized Rubbers - Accelerated Ageing or Heat Resistance Tests
ISO R846	Plastics - Evaluation of Resistance of Plastics to Fungi
ISO R1183	Plastics - Method for Determining the Density and Relative Density (Specific Gravity) of Plastics excluding Cellular Plastics
ISO 1817	Vulcanized Rubbers - Resistance to Fluids - Methods of Test
DEF STAN 01-5	Fuels, Lubricants and Associated Products

QUALITY ASSURANCE SPECIFICATION RK6716 - ISSUE ONE

REQUIREMENTS

PROPERTY	PHYSICAL	DIMENSIONS	REQUIREMENT
TENSILE STRENGTH	10 MPa minimum		10 MPa minimum
ULTIMATE ELONGATION	250% minimum		250% minimum
2% SECANT MODULUS	80 - 160 MPa		80 - 160 MPa
SPECIFIC GRAVITY	1.4 maximum		1.4 maximum
HEAT SHOCK	No dripping, cracking or flowing at 150°C		No dripping, cracking or flowing at 150°C
HEAT AGEING	Tensile Strength Ultimate Elongation		10 MPa minimum 200% minimum
ELECTRICAL	Low Temperature Flexibility		No cracking at -40°C
DIELECTRIC STRENGTH			8 MV/m minimum
CHEMICAL	Water Absorption		0.5% maximum
	Fluid Resistance to:		
	Transmission Fluid SAE 85-90		
	Engine Oil SAE 20-50		
	Hydraulic Fluid J1703		
	Gasoline Automotive F46		
	Diesel Fluid F54		
	Cleaning Fluid TL6850-017		
	Antifreeze (Ethylene Glycol)		
TENSILE STRENGTH	10 MPa minimum		10 MPa minimum
ULTIMATE ELONGATION	200% minimum		200% minimum
FUNGUS RESISTANCE			
TENSILE STRENGTH	10 MPa minimum		10 MPa minimum
ULTIMATE ELONGATION	200% minimum		200% minimum

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for te connectivity manufacturer:

Other Similar products are found below :

[570416-000](#) [CLTEQ-M81CE-SSRELAY-4-20V](#) [4-1633138-8](#) [D38999/24FJ4AN](#) [4-1195131-0](#) [650069-000](#) [SMD100-2](#) [2EDL4CM](#)
[DTS20W19-11PD-3028](#) [DTS20W19-11PD-3028-LC](#) [DTS20W19-32SD-3028-LC](#) [DTS20W19-32SD-3028](#) [NC6-P104-06](#) [TXR64AB90-](#)
[3616AI](#) [DTS26F21-41HE](#) [DTS26F21-41AE](#) [DTS26F21-41PE-LC](#) [DTS26F21-11SE-3028-LC](#) [D38999/24WF32JE](#) [D38999/24WF32SE-LC](#)
[DTS24W19-32HE](#) [D38999/20JB35HA](#) [D38999/24WJ20PA](#) [164-8033-08](#) [D38999/24FF32JE](#) [D38999/24FF32SE-LC](#) [D38999/24WF32JB](#)
[D38999/24WG11HA](#) [D38999/24WG11HN](#) [MS27467T21F11H](#) [DJT16E21-11HA](#) [DTS24F19-32HE](#) [DTS20W19-32SA-3028-LC](#) [DTS24F19-](#)
[11SC-3028-LC](#) [DTS24F19-11SC-3028](#) [DJT14E13-98HB](#) [D38999/20WC8BB](#) [1-330599-5](#) [DTS24F21-41HN-LC](#) [DTS24F21-41HN](#)
[DTS24F21-41AN](#) [DTS24F21-39HN](#) [DTS24F21-41PN-LC](#) [AFD50-10-6SN-1A-LC](#) [DJT10F17-26HC](#) [DTS24W19-32HB](#) [ACT20JE99HA](#)
[DJT10E17-26HC](#) [DJT10E17-26HN](#) [DJT10F17-26HA](#)