

Erratum: Aromatic Liquid Crystalline Copolyesters with Low T_m and High T_g : Synthesis, Characterization, and Properties

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In the published article cited above, the following errors were discovered:

Page 1 (bottom):

In his previous research, Lenz et al.¹² disclosed that BPA was much more efficient than 4,4'-thiodiphenol (TPD) in lowering the melting temperature.

The text was incorrect and should read:

In his previous research, Lenz et al.¹² disclosed that BPA was much more efficient than 4,4'-thiodiphenol (TPD) in lowering the crystallinity.

Page 2 (middle):

IR (KBr, cm^{-1}): 1790, 1705 (C=O stretch), 3400–2400 (acid OH, stretch).

The text was incorrect and should read:

IR (KBr, cm^{-1}): 1758, 1680 (C=O stretch), 3400–2400 (acid OH, stretch).

Page 3, Table I:

Table I. Composition and Inherent Viscosities of the Copolyester P-BPAX

Code	mol %				Yield %	Elemental analysis (C%/H%)		$[\eta]^a$ dL g ⁻¹
	HBA	HNA	BPA	TA		Calcd	Found	
P-HBA70	70	30	0	0	86	72.29/3.39	72.11/3.26	—
P-BPA2.5	67.5	27.5	2.5	2.5	84	72.41/3.45	72.33/3.32	0.72 ^b
P-BPA5.0	65	25	5	5	85	72.53/3.51	72.39/3.43	0.85
P-BPA10	60	20	10	10	84	72.77/3.63	72.65/3.60	0.61
P-BPA15	55	15	15	15	81	73.00/3.75	73.02/3.69	0.62
P-BPA20	50	10	20	20	78	73.23/3.86	73.15/3.81	0.42

^aInherent viscosity determined in *p*-chlorophenol at 50°C with 0.2 g dL⁻¹ using an Ubbelohde viscometer.

^bPartially soluble. "—" insoluble.

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Page 5, Table II:

Table II. Thermal Properties and Crystallinity of Copolyester P-BPAX

Code	T_g^a (°C)	T_g^b (°C)	T_m^a (°C)	T_m^b (°C)	T_i (°C)	T_d^c (°C)	X_c (%)	Char yield at 700°C
P-HBA70	70	74	260	258	>410	486	36.7	41%
P-BPA2.5	93	98	217,230	214,232	>410	407	29.3	36%
P-BPA5.0	119	114	224	223	280	458	22.6	35%
P-BPA10	124	121	221	224	>410	423	13.1	35%
P-BPA15	120	124	—	220 ^d	>410	387	8.2	34%
P-BPA20	124	135	—	225 ^d	—	362	7.5	32%

^aTested at a heating rate of 20°C min⁻¹ in first heating circle.

^bTested at a heating rate of 10°C min⁻¹ in second heating circle; "—" not observed.

^cTemperature at 10% weight loss.

^dFusion temperature observed under POM.

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Page 8 (bottom):

As shown in Figure 8, two diffraction peaks of (110) and (211) at 19.5° and 27.4° ($d = 54.55$ Å, 2.40 Å) are observed at 25°C.

The text was incorrect and should read:

As shown in Figure 8, two diffraction peaks of (110) and (211) at 19.5° and 27.4° ($d = 54.55$ Å, 3.25 Å) are observed at 25°C.